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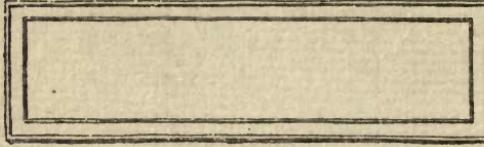
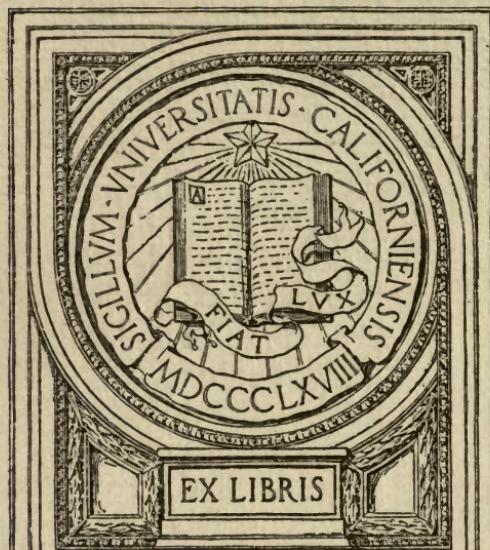


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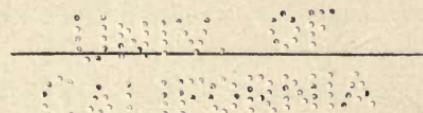


CATALOGUE
OF
WORKS, PAPERS, REPORTS, AND MAPS,
ON THE
GEOLOGY, PALÆONTOLOGY, MINERALOGY, MINING
AND METALLURGY, ETC.

OF THE
AUSTRALIAN CONTINENT
AND
TASMANIA,

COMPILED BY
ROBERT ETHERIDGE, JUN.,
OF THE BRITISH MUSEUM
(Late of the Geological Surveys of Victoria and Scotland).

AND
ROBERT LOGAN JACK, F.R.G.S., F.G.S.,
GOVT. GEOLOGIST FOR N. QUEENSLAND
(Late of the Geological Survey of Scotland).



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P R E F A C E.

THE Bibliography of Geology and allied Sciences has of late years reached such formidable proportions that without aid derived from Catalogues similar to the present, any attempt to master their literature, would be futile. The Catalogue of "Works, Papers, Reports, and Maps" originated concurrently with the "Catalogue of Australian Fossils," by one of us, and may be looked upon as a further expansion of the List given at the end of that work. The Manuscript had long been kept in a state of preparation, without an opportunity for publication occurring. The appointment of the other Compiler as Government Geological Surveyor of North Queensland offered a fitting opportunity for the completion of the work.

We present it to our fellow-scientists, especially our Australian colleagues, of whose work in particular it may be said to be an epitome, in the hope that it may afford them as much assistance in their labours, as it has given pleasure to us in its preparation.

No one is more cognisant of the many imperfections and omissions than the Compilers. We, however, trust that our readers will look at the references given rather than at those omitted. Many Colonial Reports we have been quite unable to obtain access to, and some few Periodicals, notably Dicker's *Mining Record*, published in Melbourne. Could we have consulted the works in question, especially the last named, the value of the Catalogue would have been much increased.

The titles are entered under the authors' names, but when a work is anonymous usually under the name of the subject referred to. In cases where the title of a work, or paper, does

not sufficiently explain the reason for its entry, this is done by indicating the particular reference to which attention is called within brackets at the end of the title.

We have further given a number of cross-references to subjects, to enable the reader to consult certain titles when the name of the author is unknown to him.

Our thanks are unreservedly due to a number of our friends for kindly assistance in various ways. To Prof. A. Geikie, F.R.S., we are indebted for continuous and ready access to works in the University Library, Edinburgh; to Messrs. F. W. Rudler, F.G.S., and T. W. Newton our thanks are tendered for valuable counsel and assistance at the Museum of Practical Geology; to Messrs. Wheatley (late of the Royal Society); — Gordon (R. Soc. Edinb.); W. Rupert Jones (Geol. Soc. Lond.); B. B. Woodward (Reading Room, Brit. Mus.); W. Whitaker, F.G.S., &c. (Geological Survey); R. Meade and J. B. Jordan (Mining Record Office); E. C. Rye (R. Geographical Soc.); R. Thorburn (Library, Admiralty); F. Waterhouse (Zool. Soc. Lond.); with Dr. J. Murie and Mr. West (of the Linnean Society), our indebtedness for assistance most cheerfully rendered is very great.

To the liberality of the Government of New South Wales, as represented by the present Minister for Mines, and the Secretary of the Department of Mines, Mr. Harrie Wood, the publication of the present Catalogue is in a great measure due. The Manuscript was brought under their notice by our friends, Prof. A. Liversidge, F.C.S. (of Sydney University); and Mr. C. S. Wilkinson, F.G.S. (Government Geologist, New South Wales); to whom our thanks are equally tendered. Lastly, much kind interest has been taken in the subject by Dr. H. Woodward, F.R.S., and Mr. T. Davies, F.G.S., to whom we are under similar obligations.

LONDON AND TOWNSVILLE,
October, 1881.

CATALOGUE.

- ACTON (R.) Article "Australia;" or, New Holland. *Encyclop. Brit.* ed. 9, vol. iii, pp. 103-115 (4to. London, 1875).
- ADAMS (R.) Gold in New South Wales. *Mining Journal*, 1873, xlivi, p. 1150.
- Gold Mining in New South Wales. *Ibid.* 1874, xliv, p. 833.
- Coal in New South Wales. *Ibid.* 1875, xlv, p. 647.
- Iron and Coal in New South Wales. *Ibid.* 1875, xlv, p. 236.
- Mining in New South Wales. Its sudden Rise and Depression. *Ibid.* 1875, xlv, pp. 96, 207, 511, and 956.
- Mining in New South Wales. *Ibid.* 1875, xlv, p. 1291.
- (R. D.) Gold Mining in New South Wales. *Ibid.* 1879, xlvi, p. 268.

ADDRESSES—see Barry (Sir R.); Beche (Sir H. T. de la); Clarke (Rev. W. B.); Ellery (R. L. J.); Hopkins (W.); Huxley (Prof. T. H.); McCoy (Prof. F.); Murchison (Sir R. I.); Owen (Prof. R.); Stevens (W. J.); Tate (Prof. R.); Michie (Sir A.).

"AGRICOLA" and Angas (G. F.) Description of the Barossa Range, and its neighbourhood in South Australia. Illustrated with maps and coloured plates from original drawings made on the spot, pp. 19 (4to. London, 1849) (Geological and Mineralogical Notes, p. 10).

AINSWORTH (A. B.) On the Discovery of Gold at Woods Point, Victoria, and Description of the Reefs in that locality. *Smyth's Gold Fields and Mining Districts, Victoria*, 1869, pp. 303-312.

- AINSWORTH (A. B.) Plans and Sections of Hope Reefs, Morning Star Dyke, Woods Point. *Reports, Mining Surveyors and Registrars, Victoria*, 30th September, 1871, No. 103, p. 28 (fcap. Melbourne, 1871).
- Special Report on the newly discovered Reefs, termed the "Aberfeldy Reefs." *Ibid.* No. 38, June 30th, 1871, App. A. p. 45 (fcap. Melbourne, 1871).
- ALGAR (F.) A Hand-Book to the Colony of Victoria (Australia), pp. 20 (8vo. London 1869) (Gold. p. 11).
- Notice of Minerals from New Holland. *American Journal Science*, 1840, xxxix, pp. 157-164; *Boston Journal Natural History*, 1840-41, iii, pp. 306-317.
- ALLEN (C. H.) The Gold Fields of Queensland. *Proc. R. Col. Institute*, 1869, i, pp. 94-110.
- A Visit to Queensland and her Gold Fields, pp. 367 (8vo. London, 1870).
- ✓ ALLPORT (M.) Notice of some Fossils recently discovered near Risdon, Tasmania. *Papers and Proc. R. Soc. Tas.* 1866 (August), pp. 73-75.
- ✓ — On a Collection of Bones from a Cave in the Glenorchy District, Tasmania. *Ibid.* 1867 (June), pp. 17-18.
- ✓ — Remarks on Mr. Krefft's "Notes on the Fauna of Tasmania." *Ibid.* (August), 1868, pp. 33-36.
- and Stephens (T.) Geological Features of the North Coast of Tasmania. *Ibid. for* 1876, pp. 60-61 (1877).
- ALMANACS—Sands and McDougall's Annual Register and Almanac for 1864, &c. pp. xxix and 331 (8vo. Melbourne and Sydney, 1864) (Geology of Victoria, p. 35).
- ✓ AMPHIBIA and Reptilia, Fossil—*see* Huxley (Prof. T. H.); Krefft (G.); McCoy (Prof. F.).
- ANALYSES—*see* Beche (Sir H. T. de la); Clarke (Rev. W. B.); Kenworthy (Dr. J. R.); Liversidge (Prof. A.); Newbery (J. C.); Norrie (J. S.); Princep (J.); Masters (J.); Dixon (—).

- ANGAS (G. F.) Views of the Gold Regions of Australia, pp. 2, pl. 6 (folio, London, 1851).
- A List of additional Species of Marine Mollusca to be included in the Fauna of the Province of South Australia; with Notes on their Habitats and Local Distribution. *Proc. Zool. Soc.* 1878, pp. 864-871 (*Limopsis Macgillivrayi*, A. Ad., Semifossil at McDonnell Bay, p. 871).
- see "Agricola;" "Australia."
- ANON (S. M.) Volcan dans la Nouvelle-Galles du Sud (Notasie). *Bull. Soc. Géogr. Paris*, 1829, xii, p. 337.
- Note additionnelle sur la Colonie de la rivière des Cygnes. *Ibid.* 1829, xii, pp. 160 and 161 (Minerals mentioned).
- (Maclehouse J.) The Picture of Sydney; and Stranger's Guide in New South Wales for 1838, &c. pp. 188 12mo. Sydney, 1838 (Descriptions of certain Rivers and Mountains, including Mount Wingen, or the "Burning Mountain," p. 150).
- (D. T. A.) Notice of Strzelecki's Physical Description of New South Wales, &c. *Quart. Jour. Geol. Soc.* 1845, i, pp. 558-565; *American Jour. Sc.* 1846, i, p. 278.
- Mr. Hargraves on Australian Geology. *Mining Journal*, 1854, xxiii, p. 635.
- (J. B.—W.; S. M.) Article "Australasia." *Encyclop. Brit.* 8th ed. iv, 1854, pp. 251-269 (Phys. Geography, p. 255, et seq.).
- (W. S. J.) Remarks on the Geological Origin of Australia. *Sydney Mag. Science and Art.* 1859, ii, pp. 89-93.
- Recent Discoveries in South Australia, Pastural and Mineral. *Mining Journal*, 1861, xxxi, p. 108.
- (*Gold-finder*). Our Colonial Gold Fields, Queensland. *Ibid.* 1870, xl, p. 625.
- (*A Bendigonian*) An Essay on the saving of Fine Gold, and the Undeveloped Resources of the Bendigo District. *Macartney's Bendigo Goldfield Registry*, 1871, pp. 167-180.

- ANON—The Moonta Mines, Australia. *Mining Journal*, 1873, xlivi, p. 997.
- Minerals of New South Wales. *Nature*, 1876, xiii, p. 382.
- Geology of Australia. *Coll. Guardian*, 1876, xxxi, p. 144.
- The Australian Handbook, &c. for 1876, pp. xx, 400, 216 (8vo. London, 1876).
- An Australian Gold Field. *Mining Journal*, 1878, xlvi, p. 871.
- ANSTED (Prof. T. D.) An Elementary Course of Geology, Mineralogy, and Physical Geography (8vo. London, 1850) (New Holland, or Australia, pp. 344, 350, 421, 428).
- On Recent Researches in Physical Geography and Geology. Lecture 3. Central Africa and Central Australia. *Chem. News*, 1860, ii, pp. 79-81, 90-92.
- ANTHONY (T.) On the occurrence of Copper Ore in the Wallaroo District, South Australia. *Mining Journal*, 1879, xlix, p. 785.
- ANTIMONY—Antimony in Queensland. *Ibid.* 1874, xliv, p. 1057.
- The Antimony Mines in Queensland. *Ibid.* 1875, xlv, p. 75.
- and Antimony Mines—*see* Couchman (T.).
- APJOHN (Dr. J.) On certain Copper Ores of Australia, presented to the University Museum by Dr. T. S. *Jour. Geol. Soc. Dublin*, iv, pt. 2, p. 142.
- APLIN (C. D'O. H.) Quarter Sheets 21, N. W. (Point Cook); 20, S. E. (Werribee and Little Rivers); and 20, N. E. (Wyndham), of the Geological Survey of Victoria, under the Direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, 1863).
- Report of the Acting Director of the Geological Survey on the Woods Point Goldfield, Geological Survey of Victoria, A. No. 1, pp. 5 (fcap. Melbourne, 1864).

- APLIN (C. D'O. H.) Report on the Expenditure under Special Votes, Geological Survey of Victoria. *Report of the Director Geological Survey, Victoria, 1863-64*, No. 44, pp. 15-20 (fcap. Melbourne, 1865).
- Report on the Geological and Mining Features of the Gympie Gold Field, pp. 4 (fcap. Brisbane, 1868).
- Report of the Government Geologist of the Southern District (of Queensland), pp. 4 (fcap. Brisbane, 1868).
- Report on the Auriferous Country of the Upper Con-damine, embracing the "Diggings" at Talgai, Thanes Creek, Canal Creek, and Lucky Valley, pp. 6 (fcap. Brisbane, 1869).
- Progress Report of the Government Geologist for South Queensland, pp. 3 (fcap. Brisbane, 1869).
- Concluding Report of the Government Geologist for the Southern Division; On the Examination for Gold of the Country South of the Bunya-Bunya Range, between the River Brisbane and the Coast, including some observations on the Gold Deposits at Junna and Gooroomjam, pp. 7 (fcap. Brisbane, 1869).
- Report on the Geological and Mineralogical Features of a part of the South and North portions of the Burnett District, Queensland (fcap. Brisbane, 1870).
- and Ulrich (G. H. F.) Report relative to the Survey of Quarter Sheets Nos. 9, N. W.; 13, S. W.; 14, S. E.; and 15, N. E.; dated May 14th, 1863. *Reports and Papers, Mining and Geological Survey, Victoria, 1862-3*, No. 36, pp. 5 and 6 (fcap. Melbourne, 1863).
- Quarter Sheet 15, N. E. (Guildford); Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, 1864).
- and Taylor (N.) Quarter Sheets 6, S. E. (Salt-water River); 7, N. E. (Sunbury) of the Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, n.d.).

APLIN (C. D'O. H.) and **Ulrich** (G. H. F.) Quarter Sheets 9, S. E. (Kyneton and Carlsruhe) ; 13, S. W. (Elphinstone, or Saw-pit Gully) ; and 14, N. E. (Castlemaine), of the Geological Survey of Victoria, under the Direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, *n.d.*).

— Quarter Sheets 1, N. E. (Melbourne and Templestowe) ; 1, S. E. (Melbourne) ; 1, S. W. (Williamstown) ; 6, N. W. (Mt. Macedon) ; 10, N. W. (Glenlyon) ; 8, N. E. (Mt. Atkinson and Kororoit Creek), of the Geological Survey of Victoria, under the Direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, *n.d.*).

— Quarter Sheet 7, N. W. (Mt. Aitken) Geological Survey of Victoria, under the Direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, *n.d.*) (With a plan of the Gisborne Bone Cave, and a list of the Fossil Mammalia, found therein, by Prof. F. McCoy).

APPLETON (H.) Appleton's Quartz Crushing Machine—*see also* Selwyn (A. R. C.).

ARARAT Gold Field—*see* Krausé (F. M.).

ARCHER (W.) On a fine pulverulent Substance, washed from the Combustible Schist of the Mersey River, Tasmania. *Proc. R. Soc. V. D. Land*, 1854, ii, pt. 3, p. 511.

ARROWSMITH (A. B.) Section of a Deep Shaft in the Hope Mine, Woods Point, Victoria. *Ibid. for Quarter ending March 31st, 1875*, No. 18, p. 30 (fcap. Melbourne, 1875).

— (R.) Sections of Sketch plan of the Black Dog Creek, Chiltern. *Reports, Mining Surveyors and Registrars, Victoria*, No. 4, 1867 (fcap. Melbourne, 1867).

ARTESIAN Wells—*see* Selwyn (A. R. C.).

ASBESTOS—*see* Garrett (Rev. J.).

ASSAYS (of Metals)—*see* Leibius (Dr. A.) ; Liversidge (Prof. A.) ; Milligan (J.) ; Newbery (J. C.) ; Norrie (J. S.) ; Percy (Dr. J.) ; Stagg (R.) ; Kustel (G.) ; Phillips (J. A.) ; Masters (J.) ; Dixon (—).

- ATKINSON (Rev. H. D.) Some Remarks on the Geology of Bruni Island. *Papers and Proc. R. Soc. Tas.* for 1871 (April) p. 11.
- On Rock Specimens from Trial Bay, &c. *Ibid. for 1872* (March) p. 2.
- AUSTIN (J. B.) The Mines of South Australia, including also an Account of the Smelting Works in that Colony, &c. (8vo. Adelaide, 1863), with map.
- South Australian Mines and Railways. *Mining Jour.* 1875, xlv, p. 1096.
- The Mines and Minerals of South Australia. *Harcus' South Australia*, &c., 1876, pp. 297-312 (8vo. London, 1876)—*see also* Harcus (W.).
- (R.) Journal of an Expedition sent by the Government to explore the Interior of Western Australia, North and East of the Settled Districts, pp. 59 and xiii. Maps, views, &c. (fcap. Perth, 1855).
- AUSTRALIA—Australia; a Popular Account of its Physical Features, Inhabitants, Natural History and Productions, pp. 365 (8vo. London, n.d.) [Initials at end of Preface “G. F. A.” (? G. F. Angas)].
- Felix—*see* Mitchell (Major Sir T. L.); Westgarth (W.).
- Interior of—*see* Petermann (A.); Rawlinson (T. G.).
- ✓ AUSTRALIAN Desert—Vegetation of the Australian Desert. *Jour. Soc. Arts*, 1881, xxix, No. 1490, pp. 621-22 (Extract from a Report by E. B. SANGER).
- BACKHOUSE (J.) A Narrative of a Visit to the Australian Colonies. Pp. xviii, 560, and cxliv (8vo. London, 1843) (Fossil tree, p. 152, Geology of Norfolk Is. p. 251).
- BAGOT (C. H.) Copper Mining in Great Britain, and Copper Mining in South Australia. *Mining. Jour.* 1859, xxix, p. 426.

- ✓ BAINES (T.) Additional Notes on the North Australian Expedition under Mr. A. C. Gregory. *Proc. R. Geogr. Soc.* 1858, ii, pp. 3-16.
- On Flint flakes in the Drift, and the Manufacture of Flint Implements by the Australians. *Geol. Nat. Hist. Repository*, 1866, i, p. 258.
- BAKER (Honbl. E. A.)—*see* N. S. Wales, Mines and Mineral Statistics, 1878.
- BALFOUR (Prof. J. H.) On certain Vegetable Organisms found in Coal from Fordel. *Trans. R. Soc. Edinb.* 1857, xxi, pt. 1, pp. 187-193 (Sporangia of Tasmanite, p. 193).
- Introduction to the Study of Palaeontological Botany, pp. 109, pls. 4 (8vo. Edinb. 1872) (Australian Coniferous Fossil Trees, p. 10).
- BALLAARAT—Map of the Mining District of Ballaarat. Scale : half-an-inch to one mile (Melbourne, 1859) (Quartz Reefs and Auriferous Leads are shown).
- Map of the Township of Ballaarat, East and West. Sheet No. 1, Ballaarat Gold Field. Scale: 16 chains to 1 inch (Melbourne, 1861) (Quartz Reefs and Auriferous Reefs shown).
- Gold Field—*see* Rosales (H.) ; Murray (R. A. F.) ; Smith (A.).
- Plan of the Ballaarat Gold Field, showing the position of the Estate of the Winters Freehold Gold Mining Company, Registered. Scale : 20 chains to one inch, n.d.—*see also* Murray (R. A. F.).
- The School of Mines, Ballaarat. Annual Report. Presented at the Meeting of Governors, held 29th December, 1879, together with Statement of Receipts and Expenditure for 1879, General Balance Sheet, and List of Subscriptions, Donations, &c. pp. 39 (8vo. Ballaarat, 1880)—*see* Lodes ; Tailings ; Quartz Grinder and Amalgamator.

- BARAT (C.) Statistics of the Coal Mines of the World. *Jour. Soc. Arts*, 1865, xiii, p. 528.
- BARKAS (W. J.) On a Dental Peculiarity of the Lepidosteidæ. *Jour. R. Soc. N. S. Wales for 1877*, xi, pp. 203-207.
- and Davies (W.) List of Palæozoic Fishes. *Geol. Mag.* 1874, Dec. 2, i, pp. 542-553.
- BARNARD (Dr.) On Fossil Fruits from the Black Lead, Gulgong, N. S. Wales. *Papers and Proc. R. Soc. Tas. for 1877* (1878), p. 97.
- BAROSSA Range—see "Agricola" and Angas (G. F.).
- BARRANDE (J.) Distribution des Céphalopodes dans les Contrées Siluriennes (Extrait du Syst. Silur. du Centre de la Bohême, vol. ii, 4me Série, pl. 351 à 460), pp. (480 Prague et Paris, 1870) (Tasmanian Species, p. 104, &c.).
- BARROW (G.) State of the Colony of Swan River, 1st January, 1830. Chiefly extracted from Captain Stirling's Report. *Jour. R. Geogr. Soc.* 1832, i, pp. 1-16, with map (Soils, pp. 5, 15, &c.).
- BARRY (Sir R.) Address on the Opening of the School of Mines at Ballarat, Victoria, pp. 23 (Melbourne, 1870).
- BAUER (M.) Zeolithes von Victoria in Australien. *N. Jahrbuch*, 1874, p. 522; *Jour. Chem. Soc.* 1874, xii, p. 1067.
- BAUERMAN (H.) Article. "Coal." *Encyclop. Brit.* 9th edit. 1877, vi, pp. 45-81 (Coal of Australia, p. 59).
- BAYS and Rivers, Silting up of—see Hobson's Bay; Queensland Harbours and Rivers; Port Jackson; &c.
- BECHE (Sir H. T. de la) Anniversary Address to the Geological Society of London. *Quart. Jour. Geol. Soc.* 1848, iv, pp. cviii-cix (Fossils of the New South Wales Coal Beds).
- Correspondence relating to the Appointment of a Geological Surveyor for New South Wales. *Papers relating to Geol. Surveys*, 2nd Dec. 1851, No. 2-3, pp. 3-7 (fcap. Sydney, 1852)—see also Bristow (H. W.); Roy (Sir C. A. Fitz-).

BECHE (Sir H. de la) Analyses of Coal from Van Dieman's Land, with Report. *Proc. R. Soc. V. D. Land*, 1851, i, pp. 265-266.

— and Playfair (Dr. L.) Museum of Practical Geology. Third Report on the Coals suited to the Steam Navy (fcap. London, 1851)—*see also* Phillips (T. T.).

BECKER (L.) On Rounded Fragments of Greenstone from near Wedge Bay, &c. *Proc. R. Soc. V. D. Land*, 1853, ii, pt. 2, p. 308.

— (L.) On the Age of the Animal and Vegetable Kingdoms of Australia, &c., and some Remarks on the Changes of this Land by Upheavals. *Trans. Phil. Inst. Vict.* 1857, i, pp. 15-18.

— On Native Zinc embedded in Basalt. *Ibid.* 1857, i, pp. 156-158.

— Einige Bemerkungen über das allmähliche Aufsteigen der Südlichen Kuste von New Holland. *N. Jahrbuch*, 1858, pp. 294-295.

— Über das Alter der Lebenden Thier und Pflanzen Welt in Australien. *Ibid.* 1858, pp. 535-538.

— Some Facts Determining the Rate of the Upheaval of the South Coast of the Australian Continent. *Trans. Phil. Inst. Vict.* 1859, iii, pp. 7-9; *N. Jahrbuch*, 1858, p. 294.

— Briefe aus dem südlichen Australien. *Notizblatt d. Vereins. f. Erdkunde. z. Darmstadt*, 1860 (-61), iii, pp. 68-71, 78-80.

✓ — On the Geological Age of the Australian Fauna. *Geologist*, 1862, v, p. 432.

BEDNALL (W. T.) Australian Trigonias and their distribution. *Trans. Phil. Soc. Adelaide, S.A. for 1877-78*, pp. 77-84.

BEILBY (J. Wood) Reasons suggestive of Mining on Physical Principles for Gold and Coal. A Review of the Assumptions of Geologists, pp. 54 (8vo. Melbourne, 1875).

BELL (Prof. T.) On the *Thalassina Emerei*. A Fossil Crustacean, forwarded by Mr. W. S. Macleay from New Holland. *Proc. Geol. Soc.* 1844, iv, p. 360; *Quart. Jour. Geol. Soc.* 1845, i, pp. 93-94.

BELT (T.) Mineral Veins: An Enquiry into their Origin, founded on a Study of the Auriferous Quartz Veins of Australia, pp. 52 (8vo. London and Newcastle-on-Tyne, 1861).

BENEDEN (Van) and Gervoise (P.) Ostéographie des Cétacés vivants et fossiles, &c. Livraison 13 (Paris, 4to.) (*Squalodon Wilkinsoni*, McCoy, p. 442).

BENNET (Dr. G.) Wanderings in New South Wales, Batavia, &c. being the Journal of a Naturalist in those countries, during the years 1832-1834. 2 vols. (8vo. London, 1834).

— Gatherings of a Naturalist in Australasia, &c. pp. 455 (8vo. London, 1860), plates, &c.

✓ — A Trip to Queensland in search of Fossils. *Annals and Mag. Nat. Hist.* 1872, ix, p. 314.

✓ — Notes on the *Chlamydosaurus*, or Frilled Lizard of Queensland (*C. Kingii*, Gray), and the discovery of a Fossil Species on the Darling Downs, Queensland. *Papers and Proc. R. Soc. Tas.* for 1875 (August), pp. 56-58 (1876).

— (J. F.) An Historical and Descriptive Account of South Australia (8vo. London, 1843) (Physical Aspect and Natural Productions, Minerals, p. 40).

BÉRENGIER (T.) La Nouvelle Nursie Histoire d'une Colonie Bénédictine dans l'Australie Occidentale (1846-1878), pp. 385 (8vo. Paris, n.d.) (Géologie et Minéralogie, pp. 335).

BERRY (A.) On the Geology of Part of the Coast of New South Wales. *Field's Geograph. Mem. on N. S. Wales, &c.* 1825, 8vo. pp. 233-254 (Read as a paper before the Philosophical Society of Australia, in 1822, and only published as above).

BERTHELOT (—) Nouvelles Contributions a l'Histoire des Carbones, du Graphite et des Météorites. *Ann. de Chimie et de Physique*, 1873, xxx, pp. 419-431 (Cranbourne Meteorite, p. 420).

BEYRICH (—) Über eine Kohlenkalk-Fauna von Timor. *Abhand. d. K. Akad. d. Wissenschaft. zu Berlin*, 1864, xxxvi, pp. 61-98, t. 1-3 (1865).

BIGSBY (Dr. J. J.) Thesaurus Siluricus, pp. lii and 214 (4to. London, 1868).

— Thesaurus Devonico-Carboniferus. The Flora and Fauna of the Devonian and Carboniferous Periods, &c. pp. x and 447 (4to. London, 1878).

BILLINGS (E.) On the Parallelism of the Quebec Group, with the Llandeilo of England and Australia, and with the Chazy and Calciferous Formations. *Canadian Nat. and Geol.* 1863, viii, pp. 19-35.

✓ BINGERA Gold and Diamond Field—*see* Liversidge (Prof. A.) ; Young (L.).

BINNEY (E. W.) On Bituminous Minerals from New South Wales. *Trans. Geol. Soc. Manchester*, 1871, x, p. 63.

BIRDS, Fossil—*see* Clarke (Rev. W. B.) ; Krefft (G.) ; Owen (Prof. R.).

BIRKMYRE (—) The Mineral Resources of Australia, irrespective of Gold. *Mining Journal*, 1854, xxiv, p. 113.

— (W.) A Tabular Record, shewing generally the date of Discovery in Victoria and other Countries of the most Remarkable Specimens of Native Gold (8vo. Melbourne, 1861).

— On the Effects of the Recent Gold Discoveries (in Australia). *Mining Journal*, 1861, xxx, p. 207.

— The Yield of Gold (in Victoria). *Ibid.* p. 573.

BISCHOFF (J.) Sketch of the History of Van Dieman's Land, illustrated by a Map of the Island, &c. pp. 12 and 260 (8vo. London, 1832) (Mineral productions, p. 15).

BISMUTH—*see* Wintle (S. H.).

BITUMEN—Discovery of Bitumen in Van Dieman's Land.
Mining Journal, 1854, xxiv, p. 681.

BLACK Lead—Australian Black Lead. *Ibid.* 1864, xxxiv, p. 53.

BLAND (R. H.) On the Auriferous Reefs of the Port Phillip and Colonial Gold Mining Company, Victoria. *Smyth's Gold Fields and Mining Districts, Victoria*, 1869, pp. 293-300.

— Diagrams showing the Underlie of the Reefs at Clunes. *Reports, Mining Surveyors and Registrars, Victoria*, No. 23, 1872 (fcap. Melbourne, 1872).

— Return of Quartz crushed, and yield of Gold, and Statement of the Mining Operations carried on at Clunes by the Port Phillip and Clunes Companies, for twenty years, from 1857 to 1877, &c. *Couchman's Progress Report*, No. 6, *Geological Survey Victoria*, 1880, pp. 67-70 (with Transverse Sections of Quartz Reefs at Clunes).

BLANDOWSKI (W.) Personal Observations made in an Excursion towards the central parts of Victoria, including Mount Macedon, McIvor, and the Black Ranges. *Trans. Phil. Soc. Vict.* 1855, pp. 50-74.

— A description of Fossil Animalculæ, in Primitive Rocks, from the Upper Yarra District, Victoria. *Ibid.* 1855, i, pp. 221-223 (with plate).

— On the Primary Upheaval of the Land around Melbourne, and the Recent Origin of the Gypsum, or Sulphate of Lime, in the Great Swamp between Bateman's and Emerald Hills, Flemington, Williamstown, and Melbourne, &c. *Ibid.* i, 1855, pp. 228-234 (with a plate).

— Report II, to the Honbl. the Surveyor-General, on a visit to Frankston, Port Phillip Heads, &c. *Ibid.* 1857, i, pp. 24-37.

— Report III, to the Surveyor-General of an Excursion from King's Station to Bass River, Phillip and French Islands. *Ibid.* 1856, i, pp. 50-67.

BLANDOWSKI (W.) Recent Discoveries in Natural History on the Lower Murray. *Trans. Phil. Inst. Vict.* 1853, ii, pp. 124-137 (Geological Notes, p. 129).

— On Extensive Infusorial Deposits in the Mallee Scrub, near Swan Hill, on the Lower Murray River in Victoria; and on the presence of Fucoidæ in Silurian Rocks near Melbourne. *Ibid.* 1856, ii, pp. 141-146 (plates).

✓ — Über die Geographische Verbreitung der Vögel und Säugetiere Australiens. *Jahrb. der Akad. Naturwissensch. Vereins zu Breslau.* 1860, pp. 60-61.

— Eine kurze Übersicht der Wichtigsten zur Erforschung Australiens unternommenen Reisen. *Ibid.* 1860, pp. 61-62.

BLANFORD (H. F.) On the Age and Correlations of the Plant-bearing Series of India, and the former existence of an Indo-Oceanic Continent. *Quart. Jour. Geol. Soc.* 1875, xxxi, pp. 519-542 (map).

BLEASDALE (Rev. Dr. J. J.) On Chlorine as a solvent for Gold. *Trans. R. Soc. Vict.* 1865, vi, pp. 47-52.

— A Report on the Results of an Exhibition of Jems, both Victorian and Foreign, &c., held in the Hall of the Royal Society of Victoria during the week ending 6th of May, 1865. *Ibid.* 1866, vii, pp. 64-92.

— Jems and Saphires. *Ibid.* 1866, vii, pp. 147-149.

— On Rubellite, Red Tourmaline, found at Tarrangower, Victoria, 1867. *Ibid.* 1868, viii, pp. 225-227.

— On Colonial Gems. *Ibid.* 1869, ix, pp. 72-75.

— Victorian Gems and Precious Stones. *Victorian Official Catalogue of Exhibits, Philadelphia Centen. Exhib.* 1876, pp. 71-75 — see also Exhibitions, International, 1876 (Philadelphia).

✓ BONE Caves—An Account of the discovery of Bone Caves in Wellington Valley, about 210 miles West of Sydney. *Edinb. N. Phil. Jour.* 1831, xxiv, p. 364.

- ✓ BONES, Fossil—Discovery of Fossil Bones in Australia. *Cheek's Edinb. Jour. Nat. and Geograph. Science*, 1831, iii, p. 127
—see also Buckland (Prof.) ; Clarke (Rev. W. B.).
- ✓ — On the Fossil Bones found on the River Condamine. *The N. S. Wales Mag.* 1843 (March), pp. 99-103 ; *The S. Australian Register*, 1843, vi, No. 285.
- ✓ — On Fossil Bones brought by Mr. Turner from Darling Downs. *The Sydney Gleaner*, 1848, i, p. 257.
- ✓ — see Buckland (Prof.) ; Clarke (Rev. W. B.) ; Hobson (Dr. E. C.) ; Hochstetter (Dr. F. von) ; Jameson (Prof.) ; Krefft (G.) ; Macleay (W. S.) ; McBain (Dr. J.) ; Mitchell (Sir T. L.) ; Nicholson (C.) ; Pentland (W.).
- BONWICK (J.) *Geography of Australia and New Zealand*, pp. 212 (12mo. Melbourne, 1855) (*Geology of N. S. Wales*, p. 30; *N. Australia*, p. 51; *W. Australia*, p. 63; *S. Australia*, p. 83; *Victoria*, p. 131; *Tasmania*, p. 163; *Origin of Gold*, p. 142).
- A Sketch of Boroondara, pp. 39 (12mo. Melbourne, 1858) (*Geology of Boroondara*, p. 33).
- Western Victoria ; its Geography, Geology, and Social Condition. *The Narrative of an Educational Tour in 1857*, pp. 157 (12mo. Geelong [1858 ?]).
- Geological Notes and Description of Minerals accompanying Boxes of Specimens from the Rocks of South Australia, Tasmania, and Victoria, pp. 16 (8vo. London, 1861).
- On the Extinct Volcanoes of Australia. *Brit. Assoc. Report for 1861*, pt. 2, p. 109 (1862) ; *Geologist*, 1861, iv, p. 543.
- The Volcanic Rocks of Rome and Victoria compared. *Trans. R. Soc. Vict.* 1866, vii, pp. 149-165.
- Daily Life and Origin of the Tasmanians, pp. 304 (8vo. London, 1870) (*A Sketch of the Geology of Tasmania*, p. 267).

- BONWICK (J.) The Peak Down Copper Mine, Australia. *Mining Jour.* 1874, xliv, p. 191.
- The Mineral Resources of Australia. *Iron*, iii and iv, pp. 67, 98, 101, 163, 227, 258, 291, 421, 514, and 546 (folio, London, 1874).
- Tasmanian Tin. *Mining Jour.* 1874, xliv, p. 331.
- Mineral Resources of Australia. Coal localities in New South Wales. *Iron*, 1875, v, p. 226.
- Mineral Resources of Australia. Notes on Australian Coal. *Ibid.* 1875, v, p. 387.
- The Victorian Iron Mine. *Ibid.* 1876, vii, pp. 546.
- Collins' School Series. Geography of Victoria, pp. 35. (12mo. London and Glasgow, 1877) (Geology, p. 10).
- The Resources of Queensland. With Map of Queensland containing the Recent Discoveries, pp. 126 (8vo. London, 1880) (Geology, pp. 14-29).
- Boos (C. de) Report on the Gold Fields of the Southern District, N. S. Wales. *Ann. Report, Dept. of Mines, N. S. Wales, for* 1877, pp. 89-97; *ibid. for* 1879, pp. 107-115.
- BOOTH (J. C.) Homes away from Home, and the Men who make them in Victoria, pp. 39 (8vo. London, 1869) (Geology and Soils, pp. 28-36).
- BORING Operations—*see* Selwyn (A. R. C.).
- BOUÉ (A.) Mémoire à l'appui d'une Essai de Carte géologique du globe terrestre, présenté, le 22 Septembre, 1843, à la réunion des Naturalistes d'Allemagne à Gratz. *Bull. Soc. Géol. de France*, 1844, i, pp. 296-371.
- BOULDERS—*see* Wilkinson (C. S.).
- BOUNDARY Line of the 141st Degree of East Longt.—*see* Tyers (C. J.).
- BOURNE (C.) Australian Exploration. Journal of Landsborough's Expedition in Search of Burke and Wills, pp. 52 (8vo. Melbourne, 1863).

- BOWEN (Sir G.) On the Gold Fields in Queensland. *Proc. R. Geogr. Soc.* 1864, viii, p. 156.
- River Coal Field—*see* Daintree (R.) ; Jack (R. L.).
- BOWERBANK (Dr. J. S.) A Monograph of the Siliceo-fibrous Sponges. *Proc. Zool. Soc.* 1869, pp. 323-325 (*Purisiphonia Clarkei*, Bow.).
- BRACHÉ (J.) Explanatory Report on the Rules and Bye-laws of the Mining Institute of Victoria. *Trans. Mining Inst. Vict.* 1859, i, pt. 3, pp. 1-23.
- Das Minenwesen und die Socialen Gustände an der Goldfeldern Victoria's. *Deutsche Monatschrift für Austr.* 1859, heft. 2, pp. 73-76.
- Report on the State of the Mines of Victoria, as compared with that of other Mining Countries. *Trans. Mining Inst. Vict.* 1859, i, pt. 3, pp. 24-99.
- Mining Survey Branch, Victoria. Report on Progress of Survey from 26th July to 31st December, 1862. *Reports and Papers, Mining and Geol. Survey, Victoria*, 1862-63, No. 36, pp. 9-10 (fcap. Melbourne, 1863).
- Report forwarded in Evidence to the Royal Mining Commission by the Director of Mining and Geological Surveys, with Appendices. *Ibid.* 1862-63, pp. 27-46 (fcap. Melbourne, 1863).
- Report on Gold and Tin Mining at Eldorado, Victoria (8vo. Melbourne, 1872).
- BRACHIOPODA—*see* Buch (L. von) ; Davidson (T.) ; Etheridge (R., jun.) ; De Koninck (Prof. L. G.) ; Woods (Rev. J. E. T.).
- BRAIM (T. H.) A History of New South Wales, from its Settlement to the close of the year 1844, 2 vols. (8vo. London, 1846) (Geological Notes, vol. i, p. 225).
- BRETON (Lieut.) Excursions in New South Wales, Western Australia and Van Dieman's Land, during the years 1830, 1831, 1832, and 1833, pp. xii and 476 (8vo. London, 1833) (Basaltic Columns, p. 110).

- BRISBANE (His Excellency Sir T. M.) Observations on the Temperature of the Earth at Paramatta, New South Wales. *Edinb. N. Phil. Jour.* 1824, x, pp. 219-222.
- Observations on the Mean Temperature of the Earth at Sydney, made in the years 1824-1825. *Edinb. Jour. Sc.* 1827, vi, pp. 226-228.
- An account of an Earthquake in New South Wales. *Ibid.* 1829, No. 2, p. 373.
- River—Report from the Select Committee on the Dredging Operations at the River Bar, together with the Proceedings of the Committee and Minutes of Evidence, pp. 15 (fcap. Brisbane, 1863).
- BRISTOW (H. W.) Correspondence relating to appointment of, as Geological Surveyor of New South Wales. *Papers relating to Geol. Surveys*, 2nd Dec. 1851, No. 3, pp. 5-7 (fcap. Sydney, 1852)—see also Beche (Sir H. T. de la).
- BRONGNIART (A.) *Prodrome d'une Histoire des Végétaux Fossiles*, pp. 223 (8vo. Paris, 1828).
- *Histoire des Végétaux Fossiles*, 2 vols. (4to. Paris, 1828) (*Glossopteris*, i, p. 222).
- BROWN (H. Y. L.) Report on a Geological Exploration to the N. E. of Champion Bay, West Australia, &c. pp. 13 (fcap. map, Perth, 1871) (Contains also Geological and Mining Report on the Champion Bay Mining District, West Australia, pp. 7-11; and Further Report on the Tallerong District, pp. 11-13). *Perth Inquirer and Com. News*, April 12th, 1871.
- General Report on a Geological Exploration of that Portion of the Colony of West Australia, lying Southward of the Murchison River, and Westward of Espérance Bay, pp. 20 (fcap. Perth, 1873).
- Report on the Koetong Tin Fields, Wodonga District. *Reports, Mining Surveyors and Registrars*, 30th June, 1873, App. A, p. 42 (fcap. Melbourne, 1873); *Mining Journal*, 1873, xlivi, p. 1220.

- BROWNE (T. A.) Report on the Mudgee Mining District. *Mines and Mineral Statistics, N. S. Wales, for 1874*, pp. 46-47; *Ibid. for 1877*, pp. 70-74.
- State and Prospects of Mining Operations in the Mudgee District, Gulgong Division, N. S. Wales. *Ann. Report, Dept. of Mines, N. S. Wales, for 1879*, pp. 78-83.
- BRUCE (J. A.) The Copper Ores of South Australia. *Mining Journal*, 1861, xxxi, p. 333.
- BUCH (L. von) Einige Bemerkungen über die geognostische Constitution von Van Dieman's Land. *Mag. der Gesellsch. Naturforsch. Freunde zu Berlin*, 1814, vi, pp. 234-240.
- Quelques considérations sur le Jura allemande. *Bull. Soc. Géol. de France*, 1838, ix, pp. 19-20 (Australian Coral Reefs, p. 20).
- Bear Island, geognostically described from the Observations of B. M. Keilhau. With Remarks on the *Spirifer Keilhavii*, and its relations to similar forms. *Quart. Jour. Geol. Soc.* 1847, iii, pt. 2, pp. 48-59 (*Sp. Tasmani*, Morris, p. 56).
- Ueber *Spirifer Keilhavii*, über diesem Fundort und Verhältnisse zu ähnlichen Formen. *Abh. d. k. Akad. d. Wissen. zu Berlin, aus den Jahr.* 1846 (pub. 1848), p. 65 (plate).
- BUCHANAN (—) Report on the Peel, Uralla, New England, and Clarence Mining District. *Mines and Mineral Statistics, N. S. Wales, for 1874*, p. 48.
- Report on the Peel and Uralla Mining District. *Ann. Report, Dept. of Mines, N. S. Wales, for 1877*, pp. 100-106.
- BUCHNER (Dr. O.) Die Meteoriten in Sammlungen, ihre geschichte, mineralogische und chemische beschaffenheit, pp. 202 (Leipzig, 1863) (Cranbourne Meteorite, p. 198).
- ✓ BUCKLAND (Rev. Prof.) Observations on some Specimens from the Interior of New South Wales, collected during Mr. Oxley's Expedition to the River Macquarie, in the year 1818, &c. *Trans. Geol. Soc.* 1821, v, pt. 2, pp. 480-481.

BUCKLAND (Rev. Prof.) Sur les Ossemens découvertes à la Nouvelle Hollande. *Bull. Soc. Géol. de France*, 1830, i, p. 227.

BURDEKIN River—*see* Queensland Government Schooner “Spitfire”—Report; and Dalrymple (G. E.).

BURNETT (—) Descriptive comparison of the Coal Fields of New South Wales, from a New Zealand point of View. *N. Zealand Exhib.* 1865, *Reports and Awards of the Jurors*, pp. 10-16 (8vo. Dunedin, 1866).

✓ BURR (T.) The Physical Geography of the Interior of Australia. *The S. Austr. Register*, 1843, vi, No. 260.

— Account of Gov. Grey’s Exploratory Journey along the South-East Seaboard of South Australia. *Jour. R. Geogr. Soc.* 1845, xv, pp. 160-184.

— Remarks on the Geology and Mineralogy of South Australia, pp. 32 (12mo. Adelaide, 1846).

— Report on Two Sections traversing the Colony of South Australia, one in the latitude of Mount Remarkable $32^{\circ} 44'$ S., the other, that of the Burra Mines $33^{\circ} 41'$; communicated to the Colonial Office, 1847.

— On the Geology of part of South Australia between Adelaide and the River Murray. *Quart. Jour. Geol. Soc.* 1860, xvi, p. 252 (abstract); *Phil. Mag.* 4th ser. xix, p. 76; *Geologist*, iii, p. 31.

BURRUM Coal Mines, Queensland—*see* Gregory (A. C.).

BUSK (Prof. G.) Notes on Fossil Polyzoa, from the Polyzoal Limestone of Mount Gambier, South Australia. *Quart. Jour. Geol. Soc.* 1860, xvi, p. 260.

— Description of New Polyzoa, collected by J. Y. Johnson, at Madeira, in the years 1859-60. *Quart. Jour. Micro. Science*, 1861, n. ser. i, pp. 77-80 (Genus *Psileschara*).

BYRNE (J. C.) *Twelve Years' Wanderings in the British Colonies*, from 1835 to 1847, 2 vols. (8vo. London, 1848) (*Australia Felix*; *Soil, Minerals*, i, p. 307-313—*Tasmania*; *Minerals*, ii, p. 38—*S. Australia*; *Mining and Mineral Wealth*, ii, pp. 182 215).

CABELL (J. A.) *Analysis of Atacamite from Australia*. *Chem. News*, xxviii, p. 271; *Jour. Chem. Soc.* 1874, xii, p. 345.

CADELL (F.) *Exploration of Northern Territory [of South Australia]*, with copy of Journal kept during the Exploration of the North-West Portion of the Liverpool District, pp. iii and iv (fcap. [? Adelaide], 1868).

CALVERT (J.) *Mineralogy of Australia*. *Mining Jour.* 1853, xxiii, p. 580.

— *The Gold Rocks of Great Britain and Ireland, and a general outline of the Gold Regions of the World, with a Treatise of the Geology of Gold*, pp. xx and 324 (8vo. London, 1853).

— *Australian Quartz Veins*. *Mining Jour.* 1854, xxiv, pp. 741, 773, 798.

— *On the Supply of Gold from Australia and from English Rocks*. *Brit. Assoc. Report for 1854*, pt. 2, p. 133 (title only).

CALDER (J. E.) *The Woodlands, &c. of Tasmania*. *Proc. R. Col. Institute*, 1873-74, v, pp. 166-179.

CAMERON (H. G.) *Report upon the Strata of Coal at Westernport (Victoria)*. *The Southern Australian*, 1841, iv, No. 169, p. 5.

— (W.) *On the Auriferous Rocks and Drifts of Victoria*. *Trans. Geol. Soc. Glasgow*, 1867, ii, p. 117.

— *On the Sutherlandshire Gold Fields (Scotland)*. *Ibid.* 1871, iv, pt. 1, pp. 1-17 (References to Australian Gold Fields).

CAMPBELL (Major) *Geographical Memoir on Melville Island, and Port Essington, N. Australia*. *Jour. R. Geogr. Soc.* 1834, iv, p. 129.

- CAMPBELL (J. A.) On the Auriferous Quartz Formation of Australia. *Brit. Assoc. Report for 1855*, pt. 2, p. 81 (1856).
- (W.) The Discovery of Gold in Victoria. Report of the Select Committee of the Legislative Council on the Claims for the Discovery of Gold in Victoria, together with Extracts from the Proceedings of Committee and Minutes of Evidence. To which a few Observations are prefixed, by William Campbell, the Original Discoverer, pp. 49 (8vo. Edinburgh, 1856).
- CAPE Otway District—*see* Krausé (F. M.); Murray (R. A. F.); Wilkinson (C. S.) and Smyth (R. B.).
- Patterson Coal Field—Progress Report of the Select Committee on the Cape Patterson Coal Fields, with Appendices. Presented to both Houses of Parliament by His Excellency's command (fcap. Melbourne, 1864-65)—*see also* Cowan (T.); Morris (H. B.); Hotson (J.); Selwyn (A. R. C.); Murray (R. A. F.).
- CAPPER (H.) Capper's South Australia, containing the History of the Rise, Progress, and Present State of the Colony, &c. 3rd ed. pp. iv and 243 (8vo. Liverpool, 1839) (Fossil and Mineral Substances, p. 51).
- The Australian Colonies: where they are, and how to get to them, pp. 59 (London, 1855) (Minerals, pp. 8, 21, 26).
- CARPENTARIA (Gulf of)—*see* Norman (Commr. W. H.).
- CARPENTER (T.) The Colony of Victoria, Australia; its Metallic Wealth. *Mining Jour.* 1869, xxxix, p. 81.
- CARRUTHERS (W.) On an undescribed Cone from the Carboniferous Beds of Airdrie, Lanarkshire. *Geol. Mag.* 1865, ii, pp. 433-440 (*Tasmanite*, p. 439).
- Notes on Fossil Plants from Queensland. *Quart. Jour. Geol. Soc.* 1872, xxviii, pp. 350-356, pls. 16 and 17.
- CARTER (H. J.) Emendatory Description of *Purisiphonia Clarkei*. Bk. a Hexactinellid Fossil Sponge from N. W. Australia. *Annals Nat. Hist.* 1878, i, pp. 376-379; *N. Jahrbuch*, 1879, p. 1001.

CASTLEMAINE—Map of the Mining District of Castlemaine, except the St. Andrew's Division. Scale: half-an-inch to 1 mile (Melbourne, 1860) (Quartz Reefs and Auriferous Leads shown).

— Map of the Mining District of Castlemaine, Sheet No. 1. Scale: 16 chains to 1 inch (Melbourne, 1861) (Quartz Reefs and Auriferous Leads shown).

✓ **CATALOGUES**—Catalogue of the Natural and Industrial Products of New South Wales, Exhibited in the Australian Museum by the Paris Exhibition Commissioners, Sydney, November, 1854, pp. 88 (4to. Sydney, 1854)—*see also* Clarke, Keene, Odernheimer, &c.

✓ — Catalogue of Minerals and Rocks. *London International Exhibition, 1862; Cat. Nat. and Industrial Products of N. S. Wales*, pp. 51-58 (8vo. London, 1862).

✓ — A Supplementary Catalogue of Minerals, Rocks, and Fossils which have been collected by the Mining Department, Melbourne, Victoria, pp. 50 (8vo. Melbourne, 1869).

— *see* Clarke (Rev. W. B.) ; Etheridge (R., jun.) ; Lonsdale (W.) ; McCoy (Prof. F.) ; Owen (Prof. R.) ; Smyth (R. B.) ; Sommer (Dr. F. von) ; Ulrich (G. H. F.).

✓ **CAVERNS**, Ossiferous—*see* Buckland (Prof.) ; Jameson (Prof.) ; Krefft (G.) ; Lang (Dr.) ; Lindsay (Col.) ; Mitchell (Sir T. L.).

✓ **CAVES**—Sandstone Pillars and Caves of Australia. *Edinb. N. Phil. Jour.* 1844, xxxvi, p. 381.

CHAPMAN (H. S.) The Industrial Progress of Victoria as connected with its Gold Mining. *Jour. Stat. Soc.* 1863, xxvi, pp. 424-442.

CHARTERS (W. S. C. M.) Report on the Cape River Gold Fields for the year 1867, pp. 2 (fcap. Brisbane, 1868).

✓ **CHRISTIE** (W.) The Forest Vegetation of Central and Northern New England, in connection with Geological Influences. *Jour. R. Soc. N. S. Wales for* 1877, xi, pp. 21-39 (1878).

- CHRISTOE (J. P.) Description of the New South Wales Copper Mines. *Cat. Nat. and Industrial Products, N. S. Wales, Internat. Exhibit.* 1861, pp. 96-100; London Edit. 1862, pp. 45-47—see Exhibitions, International, 1861 (N. S. Wales).
- CHURCH (Prof. A. H.) Notes on the Minerals Dysodile and Albertite. *Chem. News*, 1862, vi, pp. 122-123.
- On Tasmanite, a new Mineral of Organic Origin. *Phil. Mag.* 1864, xxviii, pp. 465-470; *Geol. Mag.* 1865, ii, p. 237.
- Note on the Zircons of Mudgee, New South Wales. *Chem. News*, 1871, xxiii, p. 78.
- CLARKE (C. J.) Report on the Calliope and Boyne Gold Fields, Queensland, pp. 2 (fcap. Brisbane, 1866).
- Report on the Calliope and Boyne River Gold Fields for the year ending Dec. 31st, 1866, pp. 2 (fcap. Brisbane, 1867).
- (Rev. W. B.) On Carboniferous Plants in Tasmania. *Tas. Jour. Nat. Science*, i, p. 242.
- On the occurrence of Atmospheric Deposits of Dust and Ashes, with remarks on the Drift Pumice of the Coasts of New Holland. *Ibid.* i, pp. 321-342.
- On a Fossil Pine Forest at Kurrur-Kurrân, in the inlet of Awaaba, East Coast of Australia. *Proc. Geol. Soc.* 1843, iv, p. 161; *The Sydney Weekly Register*, 1845, v, No. 107, pp. 68-69.
- On Dykes of Marble and Quartz, &c. on the Upper Wollondilly, Argyle County, New South Wales. *Proc. Geol. Soc.* 1845, iv, p. 524; *Quart. Jour. Geol. Soc.* 1845, i, p. 342; *Edinb. New Phil. Jour.* 1845, xl, p. 201; *Tasmanian Jour. Nat. Sci.* iii, No. 1, pp. 51-54.
- A comparison of the Geological Phenomena of the Ural Mountains with those of Australia. *Sydney Morning Herald*, Sept. 28th, 1847.
- Genera, and Distribution of Plants in the Carboniferous Rocks of New South Wales. *Quart. Jour. Geol. Soc.* 1848, iv, pp. 60-63.

- CLARKE (Rev. W. B.) On the occurrence of Trilobites in New South Wales, and the Age of the Beds containing them. *Ibid* 1848, iv, pp. 63-66.
- Remarks on the Identity of the Epoch of the Coal Beds and Palæozoic Rocks of New South Wales. *Annals Nat. Hist.* 1848, 2nd ser. ii, pp. 206-210.
- Article on Mining, containing a Prognostication of the Discovery of Tin in New South Wales. *Sydney Morning Herald*, 16th April, 1849.
- On the occurrence of Trilobites in the Palæozoic Rocks of New South Wales. *Tasmanian Jour. Nat. Sc.* iii, p. 1.
- On the Carboniferous Formation of New South Wales. *Ibid.* 1849, iii, p. 459.
- Plain Statements and Practical Hints respecting the Discovery and Working of Gold in Australia (8vo. Sydney, 1851).
- On Australian Gold. *Sydney Morning Herald*, May 20th, 1851.
- On the Discovery of Gold in Australia. *Quart. Jour. Geol. Soc.* 1852, viii, pp. 131-134; *Mining Jour.* 1852, xxii, p. 81.
- Correspondence relative to the Recent Discoveries of Gold in Australia. *Parliamentary Blue Book*, Feb. 3rd, 1852, p. 5 (A Letter extracted from the *Sydney Morning Herald*, of May 29th, 1851).
- Parallel between the Gold-bearing Rocks of the Ural and those of Australia. *Sydney Morning Herald*, May 24th, 1853.
- Report on the Geology of the Neighbourhood of the Shoalhaven River and Araluen (Reports i and ii, dated Bungonia, 20th Sept. 1851, and Mt. Elrington, 10th Oct. 1851, respectively). *Papers relative to Geol. Surveys, N. S. Wales*, 2nd Dec. 1851, Nos. 54-56, pp. 81-88 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, pp. 22-24 (fcap. London, 1853).

CLARKE (Rev. W. B.) Report on the Geology of the Gourock Range, the Carwang Country, and the Southern Division of the County of Murray (Reports iii and iv, dated Jineroo, 21st Oct. 1851). *Papers relative to Geol. Surveys, N. S. Wales*, 2nd Dec. 1851, No. 57, pp. 88-93 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, pp. 27 and 32 (fcap. London, 1853).

- On an Examination of the Country between Jineroo and Bulanamang; Report dated Camp, at Bullanamang, 10th Nov. 1851; with other minor Reports. *Papers relative to Geol. Surveys*, 2nd Dec. 1851, Nos. 58-60, pp. 93-95 (fcap. Sydney, 1852).
- On the Chemical Analysis of Quartz from the Merriwa and Lake George Ranges (Report v). *Parl. Blue Book*, Feb. 28th, 1853, p. 33.
- On the Geology of the left bank of the Upper Murrumbidgee (Report vi). *Ibid.* Feb. 28th, 1853, p. 33.
- On the Gold Localities S. W. of Cooma, and the Geology of the Counties of Beresford and Wallace (Report vii). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 1, pp. 1-5 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 33 (fcap. London, 1853).
- On the occurrence of Gold on Bobundara Creek, &c. (Report viii). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 2, pp. 5-6 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 37 (fcap. London, 1853).
- On Gold Localities at the sources of the Umaralla and other Rivers (Report ix). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 3, pp. 6-10 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 38 (fcap. London, 1853).
- On the Metalliferous Rocks of Merinoo (Report x). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 4, pp. 10-11 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, pp. 41 and 65 (fcap. London, 1853).

CLARKE (Rev. W. B.) On the Geology of the south-east parts of the County of Wellesley, with remarks on Maneero generally, &c. (Reports xi and xii). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, Nos. 5 and 6, pp. 12-19 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 66 (fcap. London, 1853).

- On the Auriferous Character of the Country along the Bendoc and Deleget Rivers (Report xiii). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 7, pp. 20-25 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 72 (fcap. London, 1853).
- On the occurrence of Gold in the County of Dampier, N. S. Wales (Report xiv). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 8, p. 26 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 76 (fcap. London, 1853).
- On the occurrence of Gold in Granite and Quartz on both Flanks of the Alps, between the Tumut and the Snowy Rivers (Report xv). *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 11, p. 33 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 77 (fcap. London, 1853).
- On the existence of Gold along the Rivers and Creeks flowing from the Muniong Range, &c. (Report xvi). *Papers relative to Geol. Surveys, N. S. Wales*, 15th June, No. 1, pp. 1-3 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 81 (fcap. London, 1853).
- On the Metalliferous Prospects of the County of Murray, and on the vicinity of Lake George (Report xvii). *Papers relative to Geol. Surveys, N. S. Wales*, 15th June, No. 2, pp. 3-6 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 83 (fcap. London, 1853).
- On the existence of Gold at Shelley's Flat (Report xviii). *Papers relative to Geol. Surveys, N. S. Wales*, 15th June, No. 3, p. 7 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 86 (fcap. London, 1853).

- CLARKE (Rev. W. B.) On the Geological Formation of the Country between the Maneero Highlands and the Sea Coast of the County of Auckland (Supp. Report xii). *Parl. Blue Book*, Aug. 16th, 1853, p. 7 (with map).
- On the General Geological Structure of the Country between Marulan and the Peel River (Report i). *Ibid.* Aug. 16th, 1853, p. 26.
- On the Geological Character and probable extent of the "Hanging Rock Diggings," &c. (Report ii). *Ibid.* Aug. 16th, 1853, p. 30.
- On the dispersion of Gold in Australia (Report iii). *Ibid.* Aug. 16th, 1853, p. 35.
- On the occurrence of Alluvial Lead Ore (Report iv). *Ibid.* Aug. 16th, 1853, p. 39.
- On the General Prospects and Physical Conditions of the "Hanging Rock" and Peel River Gold Fields (Report v). *Ibid.* Aug. 16th, 1853, p. 40.
- On the Geology of the Clarence River District, &c. (Report ix, dated Coolambarra, June 24th, 1853). *Papers relative to Geol. Surveys, N. S. Wales*, Sept. 13th, pp. 18, (fcap. Sydney, 1853); *Parl. Blue Book*, Dec. 1854, pp. 3-13, (fcap. London, 1854).
- ✓ — On the Geology of the Basin of the Condamine River (Report x, dated St. Leonards, Oct. 14th, 1853), with maps and appendices. *Papers relating to Geol. Surveys, N. S. Wales*, 21st Dec. pp. 1-11 (fcap. Sydney, 1853); *Parl. Blue Book*, Dec. 1854, pp. 29-38.
- ✓ — Remarks on the Bones brought to Sydney by Mr. Turner, published in the *Sydney Morning Herald*, Nov. 30th, 1847. *Papers relative to Geol. Surveys, N. S. Wales*, Dec. 21st, App. to Report x, pp. 11-13 (fcap. Sydney, 1853); *Parl. Blue Book*, Dec. 1854, pp. 38-39 (Appendix 1 to Report x) (fcap. London, 1854).

CLARKE (Rev. W. B.) Letter to the Honbl. The Colonial Secretary, on the subject of Correspondence between Sir R. I. Murchison and the Colonial Minister, relative to anticipations of the Discovery of Gold in Australia. *N. S. Wales, Discovery of Gold in Australia* (Sir R. Murchison's claim), pp. 1-3 (fcap. Sydney, 1854).

— On the Geological Structure and Auriferous Condition of the Country along the Upper Waters of the Namoi and Apsley Rivers (Report vi). *Parl. Blue Book*, Feb. 1854, p. 24.

✓ — On the Geological Structure and Auriferous Condition of the Country between the Heads of the Macleay and Gwydir Rivers (Report vii). *Ibid.* Feb. 1854, p. 30.

✓ — On the Geological Structure of the Western Slopes of the Highlands of New England, &c. (Report viii). *Ibid.* Feb. 1854, p. 42.

— Catalogue of Geological Specimens illustrating the Succession of the Rock Formations in New South Wales. *Cat. Nat. and Indust. Products, N. S. Wales*, 1854, pp. 41-51 (4to. Sydney, 1854).

— The Gold Fields of New South Wales. *Ibid.* 1854, pp. 60-62 (4to. Sydney, 1854).

— On the Coal Fields of New South Wales. *Ibid.* 1854, pp. 68-70 (4to. Sydney, 1854).

— On the Gold Fields of New South Wales. *British Cat. Exposition Universelle, Paris*, 1855, pp. 103-108 (large 8vo. London, 1855).

— On the Coal Fields of New South Wales. *Ibid.* 1855, pp. 108-109 (large 8vo. London, 1855).

— Catalogue of a Collection containing several hundred specimens illustrative of the Mineralogy and Geology of New South Wales, &c. *Ibid.* 1855, pp. 99-103 (large 8vo. London, 1855).

- CLARKE (Rev. W. B.) Discovery of Gold in Australia. On the Subject of Correspondence between Sir R. I. Murchison and the Colonial Minister, relative to the anticipation of the Discovery of Gold in Australia, pp. 6 (fcap. Sydney, 1854). *Parl. Blue Book*, Dec. 1854, pp. 21-23 (fcap. London, 1855).
- Report on the Gold Field at Fingal, Tasmania. *Ibid.* Aug. 25th, 1855, p. 82.
- Reports on the Analysis of Auriferous Quartz, from Fingal, Tasmania. *Ibid.* Aug. 25th, 1855, pp. 87 and 99.
- On the occurrence of Obsidian Bombs in the Auriferous Alluvia of New South Wales. *Ibid.* 1855, xi, pp. 403-404.
- ✓ — On the occurrence of Fossil Bones in the Auriferous Alluvia of New South Wales. *Quart. Jour. Geol. Soc.* 1855, xi, pp. 405-408.
- Notes on the Geology of New South Wales. *Ibid.* 1855, xi, p. 408 (abstract).
- Additional Notice of the occurrence of Volcanic Bombs in Australasia. *Ibid.* 1857, xiii, p. 188; *Phil. Mag.* 1857, xiii, p. 147.
- Notes on some Geological Specimens collected by Charles Grant Robertson, Esq., of Duntroon, near Queenbeyan, N. S. Wales. *Sydney Mag. Science and Art*, 1858, i, pp. 135 and 136.
- On the Ores of Mercury. *Ibid.* 1859, ii, pp. 157-161, 170-173.
- Researches in the Southern Gold Fields of New South Wales, pp. vii and 305 (12mo. Sydney, 1860) (with map of Gold Localities in the Basins of the Snowy River and the Murrumbidgee, 1851-2, chiefly discovered by the Rev. W. B. Clarke. Scale: about 10 miles to 1 inch)—see also Miller (F. B.); Smith (J.).
- The claims of the Rev. W. B. Clarke, M.A., F.G.S. (8vo. Sydney, 1860).

- CLARKE (Rev. W. B.) Recent Geological Discoveries in Australasia. Second Edition, with Notes and Addenda, pp. 34 (8vo. Sydney, 1861).
- A Review of Recent Geological Observations in Australia. Second Edition (8vo. Sydney, 1861).
- On the Relative Position of Certain Plants in the Coal-bearing Beds of Australia. *Quart. Jour. Geol. Soc.* 1861, xvii, pp. 354-362; *Geologist*, 1861, iv, p. 209; *Phil. Mag.* 1861, 4th ser. xxi, p. 537.
- Sur la Formation Carbonifère de l'Australie. *Bull. Soc. Géol. France*, 1861, ser. 2, xviii, pp. 669-673.
- A Communication on Prof. McCoy's New *Tæniopteris*, from the Coal-bearing Rocks of the Cape Patterson District in particular, and on the evidence bearing on the question of Australian Coal-beds in general. *Trans. R. Soc. Vict.* 1861, v, pp. 89-95.
- Remarks on Prof. McCoy's Commentary on a New *Tæniopteris*, &c. *Ibid.* 1861, v, pp. 209-214.
- The Coal Fields of New South Wales. *Cat. Nat. and Industrial Products, N. S. Wales, Internat. Exhib.* 1861, pp. 81-86—see also Exhibitions, International, 1861 (N. S. Wales).
- The Gold Fields of New South Wales. *Ibid.* 1861, pp. 89-93 (London Edit. 1862, pp. 43-44)—see also Exhibitions, International, 1861 (N. S. Wales).
- On the Age of the New South Wales Coal Fields. *Annals Nat. Hist.* 1862, x, pp. 81-86.
- On the occurrence of Mesozoic and Permian Faunæ in Eastern Australia. *Quart. Jour. Geol. Soc.* 1862, xviii, pp. 244-247; *Phil. Mag.* 4th ser. xxiii, p. 558; *Geologist*, v, p. 184.
- On the Gold Fields and Mineral Products of New South Wales. *London Internat. Exhib. Cat. Nat. and Indust. Products of N. S. Wales*, pp. 43-44 (8vo. London, 1862).

- CLARKE (Rev. W. B.) Notes upon West Australian Specimens of Gold. *Sydney Morning Herald*, No. 8125, June 23rd, 1864.
- On the Coal Seams at Stony Creek, West Maitland District, New South Wales. *Trans. R. Soc. Vict.* 1865, vi, p. 27.
- On the Carboniferous and other Geological Relations of the Maranoa District in Queensland, in reference to a Discovery of Zoological Fossils in Wollombilla and Stony Creek, West Maitland. *Trans. R. Soc. Vict.* 1865, vi, pp. 32-42 (sections).
- On the Alleged Gold Field at the head of the Nepean River, New South Wales. *Geol. Mag.* 1865, ii, p. 330 (extracted from the *Sydney Morning Herald*).
- Notes on the Geology of Western Australia. *Ibid.* 1866, iii, pp. 503 and 551.
- On the Auriferous and Non-Auriferous Quartz Reefs of Australia. *Ibid.* 1866, iii, p. 561.
- On the occurrence and Geological Position of the Oil-bearing Deposits of New South Wales. *Quart. Jour. Geol. Soc.* 1866, xxii, p. 439 (abstract).
- On the Transmutation of Rocks in Australia. *Trans. Phil. Soc. N. S. Wales*, 1862-65, pp. 267-308 (1866).
- Catalogue of Specimens from the Wianamatta and Hawkesbury Rocks, overlying the Productive Upper Coal Measures of New South Wales (fcap. [? Sydney], 1866).
- On the Marine Secondary Fossiliferous Formations in Australia. *Quart. Jour. Geol. Soc.* 1867, xxiii, p. 7.
- Inaugural Address to the Royal Society of New South Wales, delivered at its first Meeting, 9th July, 1867. *Trans. R. Soc. N. S. Wales*, 1868, i, pp. 1-27.
- On the Auriferous and other Metalliferous Districts of North Queensland. *Proc. R. Geogr. Soc.* 1868, xii, pp. 138-144; *Trans. R. Soc. N. S. Wales*, 1868, i, pp. 42-57.

- CLARKE (Rev. W. B.) Notes on the Geology of the Mary River, Queensland. *Trans. R. Soc. N. S. Wales*, 1868, i, pp. 76-78.
- Remarks on the Sedimentary Formations of New South Wales, illustrated by references to other Provinces of Australia. *American Jour. Sci.* 1868, 2nd ser. xlvi, pp. 334-353.
- On the Causes and Phenomena of Earthquakes, especially in relation to shocks felt in Australia. *Trans. R. Soc. N. S. Wales for* 1868, pp. 51-86 (1869).
- *Dinornis*, an Australian genus. *Geol. Mag.* 1869, vi, p. 383.
- Anniversary Address to the Royal Society of New South Wales, delivered on May 12th, 1869. *Trans. R. Soc. N. S. Wales, for* 1869, pp. 1-22 (1870).
- The *Dinornis* and Saurian Remains in Australia. *American Jour. Sci.* 1870, 2nd ser. xlix, p. 273.
- On the Progress of Gold Discovery in Australasia from 1860 to 1871, pp. 23 (8vo. Sydney, 1871).
- Anniversary Address to the Royal Society of New South Wales, delivered May 25th, 1870. *Trans. R. Soc. N. S. Wales, for* 1870, pp. 1-48 (1871) (Contains the Discovery of the Diamond in N. S. Wales).
- Anniversary Address, "On the Natural History of the Diamond," delivered before the Royal Society of New South Wales, May 22nd, 1872, with Appendices. *Ibid. for year* 1872, pp. 1-66 (Contains additional Notes on the History of the Diamond).
- Anniversary Address delivered to the Royal Society of New South Wales, May 12th, 1875. *Ibid. for* 1875, ix, pp. 1-56 (Chiefly taken up with Geology of New Caledonia).
- Notes on Deep Sea Soundings. *Ibid. for* 1875, ix, pp. 67-72 (1876).
- On the Deep Oceanic Depression off Moreton Bay. *Jour. R. Soc. N. S. Wales, for* 1876, x, pp. 75-82 (1877).

- ✓ CLARKE (Rev. W. B.) On *Dromornis Australis* (Owen), a New Fossil Bird of Australia. *Jour. R. Soc. N. S. Wales*, for 1877, xi, pp. 41-49.
- ✓ — Notice of a New Fossil Extinct Species of Kangaroo, *Sthenurus minor* (Owen). *Jour. R. Soc. N. S. Wales*, for 1877, xi, pp. 209-212.
- Remarks on the Sedimentary Formations of New South Wales, illustrated by References to other Provinces of Australia. *Cat. Nat. and Industrial Prods. N. S. Wales, Paris Univ. Exposition*, pp. 65-80 (8vo. Sydney, 1867).—*As a Pamphlet*: 1st ed. pp. 20 (8vo. Sydney, 1867); 2nd ed. pp. 27 (8vo. Sydney, 1871); 3rd ed. pp. 61 (8vo. Sydney, 1875); 4th ed. pp. 165, maps and sections (8vo. Sydney, 1878).—*Also in Mines and Mineral Statistics of N. S. Wales*, for 1875, pp. 149-206 (8vo. Sydney).
- With (a) Section of Coal Pits at Stony Creek, West Maitland: Scale, 24 feet to 1 inch; (b) Section of B. Pit, Greta: Scale, 48 feet to 1 inch.
- Obituary Notice of. *Proc. R. Soc.* 1878-72, xxviii, pp. i-iv (Obit. Notices)—see Etheridge (R., jun.).
- Geological Map of New South Wales—see Wilkinson (C. S.).
- and Johnston (W.) Catalogue of the Drift Deposits dug through in sinking for Gold on the Turon River. *Cat. Nat. and Indust. Products, N. S. Wales*, 1854, pp. 62-63 (4to. Sydney, 1854).
- (—) Report on the Tumut and Adelong Mining District. *Mines and Mineral Statistics, N. S. Wales*, for 1874, pp. 14-15.
- CLEMENTS (W. C.) Essay on the Supply of Water to the Interior of the Australasian Colonies. *Jour. R. Agric. Soc. N. S. Wales*, 1877, 3rd ser. pt. 4, pp. 367-394.
- CLIMATOLOGY—see Russell (H. C.); Smyth (R. B.).
- CLOIZEAUX (— Des) Caractères optiques de la Newberyite. *Bull. Soc. Min. de France*, 1880, ii, p. 82.

- CLOUD (T. C.) Note on Atacamite. *Chemical News*, 1876, xxxiv, No. 890, p. 254.
- Note on the Artificial production of Crystallized Atacamite. *Trans. Phil. Soc. Adelaide*, for 1878-79, p. 80.
- CLUNES. The Rise and Progress of Quartz Mining at Clunes. By the Special Reporter of *The Star*, pp. 50 (Ballarat, 1869).
- CLYMO (J. B.) The Discovery of Rich Deposits of Copper Ore in Australia. *Mining Jour.* 1859, xxix, p. 375.
- COAL. Coal of Van Dieman's Land. *Cheek's Edinb. Jour. Nat. and Geogr. Science*, 1830, i, p. 290.
- Discovery of Coal in Western Australia. *Gentleman's Mag.* 1847, xxvii, p. 73.
- Dr. von Sommer on the Coal of Western Australia. *The Sydney Gleaner*, 1848, i, pp. 257-58.
- (Engineer). Coal in Victoria. *Mining Jour.* 1854, xxiv, p. 410.
- Supposed Discovery of Coal in Adelaide. *Ibid.* 1858, xxviii, p. 474.
- Result of Examination at the Mint of Coal forwarded by Dr. O'Brien, from Belambi, N. S. Wales. *Sydney Mag. Science and Art*, 1859, ii, p. 121.
- The Coal Deposits of the British Colonies in the South. *Canadian Jour.* 1861, new series, vi, p. 478.
- The Coal Field of New South Wales. *Coll. Guardian*, 1861, ii, pp. 150, 197, 276.
- Coal in Victoria. *Ibid.* 1872, xxiv, p. 665.
- Experiments for Steam purposes with Australian Coal. *Mining Jour.* 1862, xxxii, p. 641.
- The Coal Fields of New South Wales. *Ibid.* 1863, xxxiii, p. 749 (Remarks on Sections prepared by the Rev. W. B. Clarke, and Mr. J. Mackenzie).

- COAL—Another Discovery of Coal in New South Wales. *Coll. Guardian*, 1864, viii, p. 174.
- Australasian Coal. *Ibid.* 1869, xvii, pp. 531-32.
- The Coal Fields of New South Wales. *Ibid.* 1871, xxii, p. 95.
- The Coal Fields of Australia. *Mining Journal*, 1872, xlvi, p. 689.
- The Coal Production of New South Wales. *Coll. Guardian*, 1872, xxiii, pp. 557-58.
- Australian Coal. *Iron and Coal Trades Review*, 1873, vii, p. 271.
- On the Coal of Victoria. *Iron*, 1875, vi, p. 645.
- The Coal Fields of New South Wales. *Coll. Guardian*, 1875, xxix, p. 446. *Ibid.* 1875, xxx, p. 538 (Summary of Reports by J. Mackenzie).
- The Coal Fields of Victoria (being an abstract of a Report by Mr. J. Mackenzie, on the Coal Fields of that Colony). *Mining Jour.* 1875, xlvi, p. 355.
- The Coal Fields of New South Wales (being an Epitome of Mr. J. Mackenzie's Report for 1873, "On the Condition and Prospects of the Coal Fields, together with the Reports of the Inspector of Collieries on the state of the various Coal, Petroleum Oil, Cannel Coal, and Kerosene Shale Mines in New South Wales, &c."). *Ibid.* 1875, xlvi, p. 355.
- Extension of the Australian Coal Field. *Ibid.* 1877, xlvii, p. 158 (Notice of a Report by Mr. J. Mackenzie, on the Port Stephens District).
- The Coal Fields of Darling Downs. *The Queenslander*, December 1st, 1877.
- Australian Coal. *Coll. Guardian*, 1877, xxxii, p. 1014.
- Coal in South Australia. *Ibid.* 1878, xxxv, pp. 795, 878.
- Queensland Coal Resources. *Mining Jour.* 1879, xlvi, p. 390.

- COAL—Australian “White,” or “Yellow”—*see Tasmanite.*
- Cannel. Discovery of Cannel Coal in New South Wales.
Coll. Guardian, 1865, ix, p. 397; *Chem. News.* 1865, xi, p. 264.
- and Coal Fields—*see Burnett* (—); *Clarke* (Rev. W. B.); *Cowan* (T.); *Daintree* (R.); *Dawkins* (W. B.); *Dixon* (—); *Eddy* (C. W.); *Gould* (C.); *Gregory* (A. C.); *Harrison* (T.); *Hector* (Dr. J.); *Helpman* (Lieut.); *Hodgkinson* (C.); *Hopkins* (E.); *Hull* (Prof. E.); *Mackenzie* (J.); *Milligan* (Dr. J.); *Princep* (J.); *Selwyn* (A. R. C.); *Strzelecki* (Count); *Stuchbury* (S.); *Morris* (Prof. J.); *Smyth* (W. W.); *Taylor* (R. C.).
- Fields. Progress Report from the Select Committee on the Cape Patterson Coal Fields, together with the Proceedings of the Committee, Minutes of Evidence, and Appendices, pp. viii and 57 (fcap. Melbourne, 1864-65).
- Geological Description of the Coal Field at Newcastle, New South Wales. *Coll. Guardian*, 1864, vii, p. 444.
- and Iron Mines (J. W. W.) The Wallerawang Iron and Coal Mines of New South Wales. *Mining Jour.* 1874, xliv, p. 751—*see also Liversidge* (Prof. A.); *Wilkinson* (C. S.).
- and Coal Mining—*see Smyth* (W. W.).
- and Shale Returns. N. S. Wales—*see Wood* (H.).
- Trade. The Coal Trade in Australia. *Coll. Guardian*, 1864, vii, p. 424.
- Measures. The Coal Measures of Australia—“Wollongongite.” *Mining Jour.* 1871, xli, p. 178.
- Production—*see Hall* (T. Y.).
- COLLIERIES (N. S. Wales)—*see Keene* (W.); *Lewis* (T.); *Mackenzie* (J.).
- COATES (J.) On a Deposit of Diatomaceæ at South Yarra, Melbourne. *Trans. R. Soc. Vict.* 1861, v. pp. 158-164.

COLLINS (D.) An account of the English Colony in New South Wales, &c. i, pp. xx, xxxviii, and 615 (London, 4to. 1798), maps and plates; ii, pp. xvi and 335 (London, 4to. 1802), maps and plates.

CONYBERE (Rev. W. D.) Report on the Progress, Actual State, and Ulterior Prospects of Geological Science. *Brit. Assoc. Report for 1831-1832*, pp. 365-414 (Australian Geology, p. 396).

COOPER (D.) Australian Coal, pp. 4 (fcap. London, 1862) (A letter addressed to the Editor of the *Times*).

— Report on the Application of Australian Coal for Steam Purposes, pp. 4 (fcap. London, 1862).

COPPER—Copper Mines in South Australia. *American Jour. Sc.* 1846, n. s. ii, p. 291.

— Burra-Burra Copper Mines in New Holland. *Edinb. N. Phil. Jour.* 1848, xlv, p. 180.

— The Burra-Burra Copper Mine, South Australia. *American Jour. Sc.* 1848, n. s. vi, p. 134.

— Copper Mines of New South Wales. *Mining Jour.* 1854, xxiv, p. 264.

— Copper Mining on York Peninsula. *Ibid.* 1872, xlii, p. 46.

— (“Chilley”) Copper Mining in South Australia. *Ibid.* 1875, xlv, p. 540.

— Copper in Queensland. *Nature*, 1880, xxi, p. 474.

— and Copper Mining—see Apjohn (Dr. J.); Bagot (C. H.); Bonwick (J.); Bruce (J. A.); Christoe (J. P.); Clymo (J. B.); Foord (G.); Rosales (H.); Tremenheere (S.); Wintle (S. H.).

— Visit to Tungkils Copper Mine, South Australia. *Iron*, 1876, vii, p. 66.

CORALS, Fossil—Australian Fossil Corals. *Nature*, 1879, xix, p. 469.

CORALS, Fossil—*see* Buch (L. von); Dana (Prof. J. D.); Duncan (Prof. P. M.); Edwards (Prof. H. Milne); Etheridge (R., jun.); Fromental (E. de); De Koninck (Prof. L. G.); Lonsdale (W.); Nicholson (Prof. H. A.) and Etheridge (R., jun.); Tate (Prof. R.); Woods (Rev. J. E. T.).

CORY (W. H.) Auriferous Deposits of New South Wales.
Mining Jour. 1853, xxiii, p. 303.

COTTA (B. von) A Treatise on Ore Deposits, translated from the Second German Edition by F. Prime, jun., &c. (8vo. New York, 1870) (Gold Lodes, p. 504).

COUCHMAN (T.) On the deep Alluvial Deposits of the Gold Fields of Victoria. *Smyth's Gold Fields and Min. Districts, Vict.* 1869, pp. 156-160.

— On the Deep Leads at Pleasant Creek, Victoria. *Ibid.* 1869, pp. 225-229.

— On the Auriferous Reefs at Pleasant Creek, Victoria. *Ibid.* 1869, pp. 339-344.

— On the Costerfield Antimony Mines, near Heathcote, Victoria. *Ibid.* 1869, pp. 417-419.

— Victoria. Reports of the Chief Inspector of Mines to the Honorable the Minister of Mines for the years 1875-1880. Presented to both Houses of Parliament by His Excellency's command (fcap. Melbourne, 1876-81).

— Geological Survey of Victoria: Report of Progress for the year 1876, No. 4, pp. vii and 189 (roy. 8vo. Melbourne, 1877).

With (a) Plan showing coast-line from Cape Howe to Wilson's Promontory. Scale: 32 miles to 1 inch; (b) Section showing Bores in the Ovens Valley, at Eurobin. Scales: Hor. 200 ft. to 1 inch, Vert. 40 ft. to 1 inch.

—*see also* Murray (R. A. F.); Krausé (F. M.); Taylor (N.); Howitt (A. W.); Nicholas (W.); McCoy (Prof. F.); Newbery (J. C.).

COUCHMAN (T.) Geological Survey of Victoria: Report of Progress for the year 1877, No. 5, pp. x, and 215 (roy. 8vo. Melbourne, 1878), Maps, sections, &c.—see also Murray (R. A. F.); Krausé (F. M.); Taylor (N.); Howitt (A. W.); Nicholas (W.); McCoy (Prof. F.); Newbery (J. C.).

— Geological Survey of Victoria: Report of Progress for the year 1878, No. 6, pp. vii, and 99 (roy. 8vo. Melbourne, 1880).

With (a) Transverse section of a Portion of the Pandora Company's Main Shaft, Sandhurst; (b) Transverse section of a Portion of the No. 3 Shaft of the Garden Gully United Co.'s Mine, Sandhurst; (c) Longitudinal Sketch section of ditto.

— see also Murray (R. A. F.); Rosales (H.); Derbyshire (J.); Bland (R. H.); McCoy (Prof. F.); Newbery (J. C.); Levey (G. C.).

— (W. G.) Plan and Sections of Poverty Reef, Tarnagulla, with Remarks. *Reports, Mining Surveyors and Registrars, Vict. 1868*, No. 1 (fcap. Melbourne, 1868).

— Special Report on the Berlin Gold Diggings, Victoria. *Ibid. for quarter ending Dec. 31st, 1874*, No. 18, p. 40 (1875).

COWAN (T.) Report on the Kilcunda and Cape Patterson Coal Fields. *Smyth's Progress Report*, No. 3, *Geol. Survey, Vict. 1876*, pp. 273-280.

COX (Dr. J. C.) On the Stone Implements of Australia and the South Sea Islands. *Proc. Linn. Soc. N. S. Wales*, 1876, i, pt. 1, pp. 21-29.

CRAWFORD (J. C.) Australian Geography and Topography, with some New Zealand Comparisons and Contrasts. *Trans. N. Zealand Inst. 1872*, iv, pp. 364-67.

CRÉPIN (F.) Note sur *Pecopteris odontopteroïdes*. Morris. *Bull. Acad. R. Belgique*, 1875, xxxix, pp. 258-263 (plate).

CRUSTACEA, Fossil—see Clarke (Rev. W. B.); Etheridge (R., jun.); McCoy (Prof. F.); Woodward (Dr. H.).

CROLL (Dr. J.) Climate and Time in their Geological Relations. A Theory of Secular Changes of the Earth's Climate, pp. xvi and 577, pls. 8 (8vo. London, 1875) (Evidence of Ice Action in Australia, p. 295).

CRYSTALLOGRAPHY—*see* Olfers (— von); Stephen (G. M.); Ulrich (G. H. F.); Rath (— von).

CUNNINGHAM (Allan) Journal of a Route from Bathurst to Liverpool Plains in New South Wales. *Field's Geograph. Mem. on N. S. Wales*, 1825, 8vo. pp. 133-191, Map (Notes on Soils, &c.)—*see* Field (Baron).

— Über die physikalische und geologische Struktur der Gegend im Westen der Gebirgsscheide zwischen Hunter's River and Moreton Bay. *Jahrb. für Min.* 1837, p. 351.

— (P.) Two Years in New South Wales, &c. 2 vols. (8vo. London, 1827) (Minerals and Metals ii, pp. 1-12), 3rd ed. 1828.

— Notes on the Interior of New South Wales. *Proc. Geol. Soc.* 1831, i, No. 19, pp. 255-256; *Jahrb. für Mineralogie*, 1833, p. 577.

CURRIE (Capt. J. M.) Journal of an Excursion to the Southward of Lake George in New South Wales. *Field's Geograph. Mem. on N. S. Wales*, &c. 1825, 8vo. pp. 367-381 (Scattered Geological Notes)—*see* Field (Baron).

DAINTREE (R.) Report on the Geology of Bellerine and Pagwit, with special reference to the probable existence of Workable Coal Seams in those Parishes. *Geol. Survey of Victoria*, Report for 1861-62, No. 43, pp. 16-23 (fcap. Melbourne, 1862) (plates and plans).

— Quarter Sheet 23, S. W. (Point Henry); 29, N. W. (Lake Connewarre). Geological Survey of Victoria, under direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, 1862).

— Quarter Sheets 23, N. E. (Port Arlington); 23, S. E. (St. Leonards); 29, N. E. (Queenscliff). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, 1863).

— Age of the New South Wales Coal Beds, *Geologist*, 1864, vii, p. 72; *Coll. Guardian*, 1864, vii, pp. 150 and 168.

- DAINTREE (R.) Position des Couches à Glossopteris au-dessous des roches de la Période carbonifère. *Bull. Soc. Géol. de France*, 1864, xxi, p. 33.
- Geological Survey of Victoria. Report on the Geology of the District of Ballan, including Remarks on the Age and Origin of Gold, No. 15, 1866, pp. 11, Sections, &c. (fcap. Melbourne, 1866).
- Report on the Cape River Diggings, and the latest Mineral Discoveries in North Queensland, pp. 7 (fcap. Brisbane, 1868) (with Geological Maps).
- Progress Report by Mr. Richard Daintree, Government Geologist, Northern Districts, pp. 21 (fcap. Brisbane, 1869) (with Sketch Map of Gilbert Diggings).
- Report on the Gilbert Ranges Gold Field, pp. 5 (fcap. Brisbane, 1869) (with Geological Sketch Map of the Upper Gilbert).
- Report on the Gold Discoveries in the Gilbert Ranges, p. 1 (fcap. Brisbane, 1869) (with Sketch Map of Gilbert Diggings).
- Progress Report of the Rockhampton Mining District, with a map of the Mount Wheeler Gold Field (including Mount Wheeler Reefs, Morinish Gold Fields, Blackfellows Diggings, Crocodile Creek Diggings, &c.) (fcap. Brisbane, 1870).
- Notes on the Geology of the Colony of Queensland. *Quart. Jour. Geol. Soc.* 1872, xxviii, pp. 271-317 (map and numerous woodcuts); *Coll. Guardian*, 1872, xxiii, p. 495; *B. A. Rept.* for 1871, pt. 2, p. 95.
- Tin in Queensland. *Mining Jour.* 1872, xlvi, p. 689.
- Iron in Queensland. *Ibid.* 1874, xliv, p. 947.
- Note on Certain Modes of Occurrence of Gold in Australia. *Quart. Jour. Geol. Soc.* 1878, xxxiv, pp. 431-38, pls. 17 and 18.

DAINTREE (R.) and Wilkinson (C. S.) Quarter Sheets 19, N. E. (Anakie Hills); 19, S. E. (Station Peak); 20, N. W. (You-Yangs); 20, S. W. (Bothwell); 23, N. W. (Point Wilson and Bird Rock); 24, S. E. (Geelong); 28, N. E. (Mt. Duned and German Town); 28, S. E. (Puebla); 29, S. W. (Thompson's Ck.). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 miles to 1 inch (Melbourne, 1863).

— and Wilkinson (C. S.) Quarter Sheet 12, S.E. (Balliang); 8, S.W. (Mount Mary); 8, S.E. (Tarneit). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 miles to 1 inch (Melbourne, 1864).

DALRYMPLE (G. E.) Letter from Mr. George Elphinstone Dalrymple, Commissioner of Crown Lands in the Kennedy District, to the Honourable the Colonial Secretary, dated Brisbane, 14th Nov., 1860, "On the Exploration of the Estuaries of the River Burdekin, &c." *Report of Proceedings, Queensland, Govt. Schooner "Spitfire,"* pp. 12-38 (Geological Notes)—see Govt. Schooner "Spitfire."

— Queensland. Narrative and Reports of the Queensland North-east Coast Expedition, 1873, pp. 53 (fcap. Brisbane, 1874) (Appendix A, List of Minerals, p. 36) (With map showing Explorations and Discoveries by G. E. Dalrymple, &c. Scale: 5 miles to 1 inch).

DALTON (—) Gold in Quartz. *Sydney Morning Herald*, No. 2, Sept. 19th, 1859.

— (F.) Rocks and Minerals of the Rocky River Gold District. *Cat. Nat. and Industrial Products, N. S. Wales, Internat. Exhib.* 1861, pp. 93-95 (London edit. 1862, pp. 44-45)—see Exhibitions, International, 1861 (N. S. Wales).

— (—) Report on the Lachlan District. *Mines and Mineral Statistics, N. S. Wales*, 1875, pp. 28-41.

With (a) Plan of McGuiggan's Lead, Goobang Creek; (b) Plan, showing Gold leads in the vicinity of Parkes and Forbes.

- DALTON (—) Report on the Lachlan Mining District (Gold Field). *Ann. Report, Dept. of Mines, N. S. Wales for 1876*, pp. 47-62 (with Plan of O'Brien's Reef, and a Section of the deep shaft in the ground held by the Grenfell New Consols Company, 3rd April, 1876); *Ibid. for 1877*, pp. 74-88.
- Report on the Lachlan District, including the Billabong, Cargo, Emu Creek and Tyagong Gold Field. *Ibid. for 1878*, pp. 71-77.
- Report upon the several Gold Fields (Billabong, Lachlan, Emu Creek, and Tyagong Gold Fields) within the Lachlan Mining District. *Ibid. for 1879*, pp. 87-95.
- DAMPIER (Capt. W.) A Voyage to New Holland, &c. in the year 1699, &c. 3 vols. 8vo. 1703-1709 (vol. iii, 1703, Physical Geography, p. 117).
- DANA (E. S.) Morphologische Studien über Atacamit. *Mineralogische Mittheil. Wien.* 1874, heft. 2, pp. 103-108; *American Jour. Sc.* 1874, 3rd ser. viii, p. 69.
- ✓ — (Prof. J. D.) Notes on some Australian Fossils. *Annals and Mag. Nat. Hist.* 1848, ii, p. 150.
- ✓ — Fossils of the Exploring Expedition under the Command of Charles Wilkes, U.S.N., a Fossil Fish from Australia, &c. *American Jour. Sc.* 1848, 2nd ser. v, p. 433.
- A Description of Fossil Shells of the Collections of the Exploring Expedition under the Command of Charles Wilkes, U.S.N., obtained in Australia. *Ibid.* 1847, 2nd ser. iv, p. 151; *Weigmann's Archiv.* xiii, p. 301.
- Corals and Coral Islands. Pp. 398, plates and maps (8vo. London, 1872) (Australian reefs, 135, 142, 148, 309, 310, and 329); 2nd ed. pp. xx and 348, plate and maps (8vo. London, 1875) (Australian reefs, 107, 113, 118, 264, 265, 282).
- ✓ — United States Exploring Expedition, during the years 1838, 1839, 1840, 1841, 1842, under the Command of Charles Wilkes, U.S.N., Vol. x. Geology, pp. xii and 756 (4to. atlas, pls. 21, folio, Philadelphia, 1849) (N. S. Wales, pp. 449-537; Fossils of N. S. Wales, pp. 681-720).

DANA (Prof. J. D.) On the Degradation of the Rocks of New South Wales, and Formation of Valleys. *American Jour. Sc.* 1850, ix, p. 289.

— Manual of Geology: treating of the Principles of the Science with reference to American Geological History, &c. (8vo. Philadelphia, 1863) (Australian Geology, pp. 29, 34, 443, 444, 447, 525, 566, &c.); 2nd ed. pp. xvi and 828, map, &c. (New York, 1876) (*Ibid.* pp. 14, 28, 33*, 283, 345, 370, 438, 470, 570, 571, 575, 622).

— Manual of Mineralogy and Lithology, &c. 3rd edition (London, 1879).

DARBYSHIRE (J.) Report on the Harp of Erin Company's Mine, Freeburgh, Ovens District. *Couchman's Progress Report, No. 6, Geol. Survey Vict.* 1880, pp. 64-66 (plan and sections, Harp of Erin Gold Mining Company. Scale: 120 ft. to 1 inch).

✓ D'ARCHIAC (Le Viscompte A.) Histoire des Progrès de la Géologie de 1834 à 1845 (Paris, 7 vols. 8vo. 1847). Orographie particulière, i, 1847, pp. 180-183; ii, pt. i, 1848. Terrain quaternaire de l'Australie, pp. 414-419; ii, pt. 2, 1849. Terrain Tertiaire de l'Australie, pp. 1084-86; iii, 1850. Roches Ignées ou Pyrogènes de l'Australie, pp. 580-82; vii, 1857. Flore fossile, pp. 688-692; viii, p. 661.

— Leçons sur la Faune Quaternaire (Paléontologie Stratigraphique) (8vo. Paris, 1865) (Dix-huitième Leçon, Faune Quaternaire de l'Australie, pp. 263-274).

DARWIN (C.) Narrative of the surveying voyages of H.M.S. "Adventure" and "Beagle," between the years 1826-1836, describing their examination of the Southern Shores of America, and the "Beagle's" Circumnavigation of the Globe (3 vols. 8vo. London, 1839) (Vol. iii, pp. 515-538).

— Journal of Researches into the Geology and Natural History of the Various Countries visited by H.M.S. "Beagle," under the Command of Capt. Fitzroy, R.N., from 1832 to 1836, pp. xiv and 615 (8vo. London, 1839) (Australia, pp. 515-569).

DARWIN (C.) Geological Observations on the Volcanic Islands visited during the voyage of H.M.S. "Beagle," together with some brief notices on the Geology of Australia and the Cape of Good Hope. Being the Second Part of the Geology of the Voyage of the "Beagle" under the Command of Capt. Fitzroy, R.N., during the years 1832 to 1836, pp. vii and 175 (8vo. London, 1844) (Australia, pp. 130-148)—*see also* Sowerby (G. B.); Lonsdale (W.).

— Geological Observations on Coral Reefs, Volcanic Islands, and on South America: being the Geology of the Voyage of the "Beagle," under the Command of Capt. Fitzroy, R.N., during the years 1832 to 1836, pp. xii and 279 (8vo. London, 1851), Maps, &c. (Foliated rocks of Australia, p. 165).

— Journal of Researches into the Natural History and Geology of the Countries visited during the Voyage of H.M.S. "Beagle" round the World, under the Command of Capt. Fitzroy, R.N., second edition, corrected with Additions, pp. viii and 519 (8vo. London, 1845) (Australia, pp. 431-451) (This forms the second edition of the second entry under Darwin).

— Geological Observations on the Volcanic Islands, and Parts of South America, visited during the Voyage of H.M.S. "Beagle," &c. second edit. pp. 647 (8vo. London, 1876). (This forms the second edition of the third entry under Darwin).

DAVIES (W.) and Barkas (W. J.) List of Palæozoic Fishes. *Geol. Mag.* 2nd ser. 1874, i, pp. 542-553.

DAVIS (J.) and Westgarth (W.) Tracts of McKinlay and Party across Australia, pp. xvi and 408 (8vo. London, 1863), with Map (Indications of Gold, p. 317).

DAVIDSON (T.) A Monograph of the British Fossil Brachiopoda, ii, part 5. The Carboniferous Brachiopoda, 1858-63, pp. 280, pls. 55 (Australian and Tasmanian Carbonif. Brach., p. 264).

- DAVIDSON (T.) On Tertiary Brachiopoda. *Geologist*, 1862, v, pp. 446 and 447 (*Waldheimia Garibaldiana* from Mt. Gambier, described).
- A Monograph of the British Fossil Brachiopoda, Part 7. The Silurian Brachiopoda, No. 2, pp. 89-168, plates 13-22, &c. (4to. London, 1867) (*Atrypa reticularis*, Linn. p. 133).
- Report on the Brachiopoda, dredged by H.M.S. "Challenger," during the years 1873-76. *Report on the Scientific Results of the Voyage of H.M.S. "Challenger,"* 1873-76. Zoology, vol. i, pt. 1, pp. 1-67, pls. 4 (London, 1880).
- DAVISON (S.) New Theory of the Origin of Gold. In Letters addressed to Mr. Hargraves. *E. H. Hargraves' Australia and its Gold Fields*, 1855, pp. 203-240—see also Hargraves (E. H.).
- The Discovery and Geognosy of Gold Deposits in Australia; with comparison and accounts of the Gold Regions in California, Russia, India, Brazil, &c., including a Philosophical Disquisition on the Origin of Gold in Placer-deposits and in Quartz Veins, pp. ix and 484 (with map and appendices) (8vo. London, 1860).
- The Gold Deposits in Australia; their Discovery, Development and Geognosy, with a Disquisition on the Origin of Gold in Placer-deposits and in Quartz-Veinstones. 2nd edition, pp. ix and 484 (8vo. London, 1861) (This forms the 2nd ser. of preceding work).
- Placer-deposits of Gold in Australia. *Mining Jour.* 1861, xxx, p. 522.
- DAWKINS (W. B.) The Age of the New South Wales Coal Beds. *Trans. Manchester Geol. Soc.* 1875, xiv, pt. 2, p. 28.
- DAWSON (Dr. J. W.) On Sporecases in Coals. *American Jour. Science*, 1871, cl, pp. 256-263: *Canadian Nat. and Geol.* 2nd ser. v, No. 4, pp. 369-377 (Tasmanite).

DAWSON (R. D.) The present State of Australia ; a description of the Country, its advantages and prospects, &c. 2nd edit. pp. xix and 455 (8vo. London, 1831) (Observations on Soils, &c. p. 344).

— (—) Extract from a Report on the Geological Characters of the Country on the Florentine River, Tasmania. *Proc. R. Soc. V. D. Land*, 1852, ii, pt. 1, p. 168.

DE BOOS (C.) Report on the Southern Mining District of New South Wales. *Mines and Mineral Statistics, N. S. Wales*, 1875, pp. 15-27.

DEEP LEADS—see Couchman (T.) ; Etheridge (R., jun.) and Murray (R. A. F.) ; Howitt (A. W.) ; Krausé (F. M.) ; McAlpine (G. B.) ; Murray (R. A. F.) ; Stephens (T.).

DELESSE (—) Sur le Gisement et sur l'Exploitation de l'Or en Australie. *Ann. des Mines*, 1853, iii, pp. 185-212.

DENISON (Sir W. T.) On the relative value of Native Gold, from the different Countries, whence it is brought to Market in these Colonies. *Proc. R. Soc. V. D. Land*, 1853, ii, pt. 2, pp. 201-224.

— On the Mersey and Don River Coal Seams, Tasmania. *Ibid.* 1854, ii, pt. 3, pp. 487-488.

— Remarks on transmuted Sandstone. *Ibid.* 1854, ii, pt. 3, p. 510.

— On the Filtration of Water through Sand. *Sydney Mag. Science and Art*, 1859, ii, pp. 73-74.

— Varieties of Viceregal Life, 2 vols. (8vo. London, 1870) (Discovering of Gold at Port Phillip, i, p. 175 ; Coal Mine at Bellambi, i, p. 450).

DESLONGCHAMPS (E.) Documents sur la Géologie de la Nouvelle-Calédonie, suivis du Catalogue des roches receuillies dans cette île par MM. Jouan et E. Deplanches, et de description des fossiles triasique de l'île Hugon, dépendance de cette Colonie, pp. 50 (8vo. Paris, 1864).

✓ DIAMONDS—Diamonds in Australia. *Mining Jour.* 1853, xxiii, p. 31.

DIAMONDS and Diamond Mining—*see* Clarke (Rev. W. B.); Foord (G.); Hunt (J.); Liversidge (Prof. A.); Mackay (A.); Taylor (N.); Wilkinson (C. S.).

DIATOMACEÆ—*see* Coates (J.).

DIPROTODON, Remains of—*see* Hobson (Dr. E. C.); Hochstetter (Dr. F. von); Huxley (Prof. T. H.); Krefft (G.); McCoy (Prof. F.); Owen (Prof. R.); Wilson (C. A.).

DIXON (W. A.) On the Metallurgy of Nickel and Cobalt. *Jour. R. Soc. N. S. Wales*, 1879, xii, pp. 127-132.

— The Deep Well Waters of Sydney. *Ibid.* 1872, xii, pp. 133-141.

— Note on the Boorook Silver Ore. *Ibid.* 1879, xii, pp. 255-259.

— Analysis of Samples of Coal from New South Wales. *Ann. Report, Dept. of Mines, N. S. Wales, for* 1878, pp. 16-19.

— Analysis of Samples of Coal from New South Wales. *Ibid. for* 1879, pp. 24-29.

— Analysis of Copper Ores from New South Wales, made during 1879. *Ibid.* 1879, pp. 37-41. Silver Ores. *Ibid.* pp. 42-44. Limestones and various other Minerals. *Ibid.* pp. 47-49.

— On Silver in New South Wales. *Mining Jour.* 1880, I, p. 323.

D'ORBIGNY (A.) Dumont d'Urville's Voyage au Pôle Sud. Atlas, Paléontologie, 6 plates (folio, Paris, 1846) (Figures of Australian Palæozoic Fossils).

DOWNING (Dr. C. T.) On Norfolk Island, its Character and Productions. *Proc. R. Soc. Tas.* 1859, iii, pt. 2, pp. 195-212 (Geology, pp. 197-199).

DOYLE (P.) Petroleum: its History, Origin, and Use, with reference to its advantages and perils as an illuminator (8vo. Brisbane, 1880).

DRESSING of Ores—*see* Smyth (W. W.).

DRIFTS, Auriferous—*see* Selwyn (A. R. C.) ; Skey (W.) ; Murray (R. A. F.) ; Wilkinson (C. S.).

DUNCAN (Prof. P. M.) A Description of some Fossil Corals and Echinodermata from the South Australian Tertiaries. *Annals Nat. Hist.* 1864, 3rd ser. xiv, pp. 161-168, t. 5 and 6.

— Note on the Fossil Corals from Muddy and Violet Creeks, Victoria. *Quart. Jour. Geol. Soc.* 1865, xxi, pp. 394 and 395.

— A Description of some Fossil Corals from the South Australian Tertiaries. *Annals Nat. Hist.* 1865, 3rd ser. xvi, p. 182, t. 8.

— The Fossil Corals (Madreporaria) of the Australian Tertiary Deposits. *Quart. Jour. Geol. Soc.* 1870, xxvi, p. 284, pls. 19-21; *N. Jahrbuch*, 1871, p. 330.

— On some Fossil Alcyonaria from the Australian Tertiary Deposits. *Quart. Jour. Geol. Soc.* 1875, xxxi, pp. 673-674, t. 38a.

— On some Fossil Corals from the Tasmanian Tertiary Deposits. *Ibid.* 1875, xxxi, pp. 677-678, t. 38c.

— On some Fossil Reef-building Corals from the Tertiary Deposits of Tasmania. *Ibid.* 1876, xxxii, pp. 341-351, t. 22.

— On the Echinodermata of the Australian Cainozoic (Tertiary) Deposits. *Ibid.* 1877, xxxiii, pp. 42-73, pls. 3 and 4; *N. Jahrbuch*, 1878, p. 109.

— On the Salenidæ, Wight, Part 2. Observations on the Morphology of Recent Salenidæ, &c. *Annals Nat. Hist.* 1877, xx, pp. 245-257 (*Salenia Tertiaria*, Tate, p. 246).

✓ — The Marsupialia and Monotremata. *Cassell's Natural History*, vol. iii, pp. 191-234 (8vo. London, n.d.) (Fossil Distribution, pp. 226 and 234).

DUNN (E. J.) Notes on the Rocks and Minerals of the Ovens District, with a sketch map. *Reports, Mining Surv. and Registrars, Vict.* No. 26, March 31st, pp. 41-47 (fcap. Melbourne, 1871) containing—

(a) Geological Sketch Map of the Parish of Beechworth. Scale: 40 chains to an inch. (b) Plan of the Western Portion of Wooragee Valley. Scale: 40 chains to an inch, and three sections.

— Notes on the occurrence of Enhydros, or Water-Stones, at Beechworth. *Trans. R. Soc. Vict.* 1874, x, pp. 32-35 (plan and sections).

DUPERREY (Capt.) Extrait du Report fait à l'Académie des Sciences sur le Voyage de Découvertes exécuté dans les Années 1822 à 1825. *Bull. des Sc. Nat. et de Géol. de Féruccac*, 1825, vi, p. 187 (Australian Geology, p. 189).

DUTTON (F.) South Australia and its Mines, with an Historical Sketch of the Colony, &c. pp. 361 (8vo. London, 1846).

DYSOVIDE—*see* Church (Prof. A. H.); Ralph (T. H.).

EARL (G. W.) Observations on the Commercial and Agricultural Capabilities of the North Coast of New Holland, and advantages to be derived from the establishment of a Settlement in the vicinity of Raffles' Bay, pp. 47 (8vo. London, 1836).

— Notes on Northern Australia and Neighbouring Seas. *Jour. R. Geogr. Soc.* 1842, xii, pp. 139-141.

— Enterprise in Tropical Australia, pp. viii and 177, 2 maps (8vo. London, 1846) (Soil and superficial accumulations of Cobourg Peninsula, pp. 74-76).

— Contributions to the Physical Geography of South-eastern Asia and Australia. *Jour. Indian Archipelago*, 1852, vi, pp. 243-277; *Ibid.* 1858, new ser. ii, pp. 278-286.

— A Correspondence relating to the Discovery of Gold in Australia, pp. 16 (8vo. London, 1853).

— A Handbook for Colonists in Tropical Australia, pp. 187 (8vo. London, 1863) with maps.

EARP (G. B.) The Gold Colonies of Australia (12mo. London, 1853).

EARTHQUAKES.—Earthquakes in New South Wales. *Sydney Mag. Science and Art*, 1859, ii, pp. 93-94.

— see Brisbane (Sir T. M.) ; Clarke (Rev. W. B.).

EARTH Temperature—see Brisbane (Sir T. M.).

ECHINODERMATA, Fossil—see Duncan (Prof. P. M.) ; Etheridge (R., jun.) ; Johnston (R. M.) ; De Koninck (Prof. L. G.) ; Laube (Dr. G. C.) ; Woods (Rev. J. E. T.).

EDEN (C. H.) The Fifth Continent, with the adjacent Islands ; being an account of Australia, Tasmania, and New Guinea, with Statistical Information to the latest date, pp. viii and 312 (8vo. London, n.d.) (Geological Features of the Fifth Continent, p. 24 ; Victoria, &c. Geological Formation, pp. 181, 207, 228).

EDDY (C. W.) On the Natural Distribution of Coal throughout the British Empire. *Proc. R. Col. Institute*, 1872, iii, pp. 167-193 (Australasian Coal, pp. 175-179).

— Special Report on the Victoria Stream Tin Deposits. *Mining Jour.* 1875, xlv, p. 1223.

EDWARDS (Prof. Milne-) et Haime (Jules) Monographie des Polypiers Fossiles des Terrains Paléozoïques, précédée d'un Tableau Général de la Classification des Polypes. *Archives du Mus. d'Hist. Nat.* v, pp. 1-502, pls. 1-20 (Remarks on *Stenopora*, &c. p. 273).

— A Monograph of the British Fossil Corals, Pal. Soc. 1852, part iii. Corals from the Permian Formation, and Mountain Limestone, pp. 210, pls. 31-46 (Remarks on *Cladochonus*, p. 164).

EGERTON (Sir P. de M. G.) On some Ichthyolites from New South Wales, found by the Rev. W. B. Clarke. *Quart. Jour. Geol. Soc.* 1864, xx, pp. 1-5, t. 1 ; *Geologist*, 1863, vii, p. 470 ; *Phil. Mag.* 1863, 4th ser. xxvi, p. 550.

ELLERY (R. L. J.) Anniversary Presidential Address to the Royal Society of Victoria. *Trans. R. Soc. Vict.* 1868, viii, p. iii (Geological Summary, pp. x and xi).

— Notes on the Climate of Victoria. *Internat. (Victoria) Exhibition Essays*, No. 3, pp. 20 (8vo. Melbourne, 1872) (Rainfall of Victoria, p. 11).

ELIOTT (G. W.) Report on the Talgai Gold Fields, Queensland, for the year 1865, pp. 3 (fcap. Brisbane, 1866).

— Annual Report on the Talgai Reefs and Canal Creek Alluvial Gold Fields, Queensland, pp. 2 (fcap. Brisbane, 1867).

ENALIOSAURIA—*see* McCoy (Prof. F.).

ENGLISH (A. G.) On Australian and Tasmanian Tin. *Mining Jour.* 1875, xlv, p. 19.

— Iron Ore in Australia. *Ibid.* 1875, xlv, p. 124.

ENHYDROS, or Water Stones—*see* Dunn (E. J.) ; Foord (G.) ; Mello (Rev. J. M.).

ERSKINE (J. E.) Australian Gold Discoveries (8vo. London, 1851).

ETHERIDGE (R.) Description of the Palaeozoic and Mesozoic Fossils of Queensland. *Quart. Jour. Geol. Soc.* 1872, xxviii, pp. 317-350, pls. 13-15.

— (R., jun.) Note on the Lignite Deposit of Lal-Lal, Victoria. *Ibid.* 1873, xxix, p. 565.

— Observations on a few Graptolites from the Lower Silurian Rocks of Victoria, Australia, &c. *Annals Nat. Hist.* 1874, 4th ser. xiv, pp. 1-10, t. 3.

— Description of a New Species of the Genus *Hemipatagus*. Desor, from the Tertiary Rocks of Victoria, Australia; with Notes on some previously described Species from South Australia. *Quart. Jour. Geol. Soc.* 1875, xxxi, pp. 444-450, t. 21.

- ETHERIDGE (R., jun.) On the occurrence of a Species of *Retepora* (allied to *R. phœnicea*, Busk.), in the Tertiary Beds of Schnapper Point, Hobson's Bay, Victoria. *Trans. R. Soc. Vict.* 1875, xi, pp. 13-14.
- On some Species of *Terebratulina*, *Waldheimia*, and *Terebratella* from the Upper Tertiary Deposits of Mount Gambier and the Murray River Cliffs, S. Australia. *Annals Nat. Hist.* 1876, ser. 4, xvii, pp. 15-22, t. 1 and 2.
- Observations on the Sand Dunes of the Coast of Victoria. *Trans. R. Soc. Vict.* 1876, xii, pp. 2-5.
- South Australian Post Tertiary Foraminifera and Ostracoda. *Geol. Mag.* 1876, Dec. 2, iii, p. 334.
- Notes on some Upper Palæozoic Polyzoa from Queensland. *Trans. R. Soc. Vict.* 1876, xii, pp. 66-68 (plate).
- Gold in the Coal Measures of New South Wales. *Geol. Mag.* 1877, Dec. 2, iv, p. 286.
- On the History of Australian Palæozoic Actinology. *Trans. R. Soc. Vict.* 1878, xiv, pp. 102-108.
- A Synopsis of the known Species of Australian Tertiary Polyzoa. *Jour. R. Soc. N. S. Wales for* 1877, xi, pp. 129-143.
- ✓ — On a Species of *Unio* discovered in the Home Rule Lead, Gulgong, New South Wales, by C. S. Wilkinson, Esq., &c. *Ann. Report, Dept. of Mines, N. S. Wales, for* 1878, pp. 164-169.
- ✓ — A Catalogue of Australian Fossils (including Tasmania and the Island of Timor) Stratigraphically and Zoologically arranged. Edited for the Syndics of the University Press, pp. viii and 232 (8vo. Cambridge, 1878).
- Obituary Notice of the late Rev. W. B. Clarke, M.A., F.R.S., F.G.S., &c. *Geol. Mag.* 1878, Dec. 2, v, pp. 379-82.
- Obituary Notice of the late R. Daintree, C.M.G., F.G.S. *Ibid.* 1878, Dec. 2, v, pp. 429-32.

- ETHERIDGE (R., jun.) Report on a Collection of Fossils from the Bowen River Coal Field, and the Limestone of the Fanning River, North Queensland. *Quart. Jour. Geol. Soc.* 1879, xxxv, pt. 4, pp. 101-102 (abstract); *Proc. R. Phys. Soc. Edinb.* 1880, v, pp. 263-328, pls. 7-17.
- Stratigraphical and Descriptive Geology, Australasia. *Geol. Record*, 1874, pp. 149-160; *Ibid.* 1875, pp. 147-164; *Ibid.* 1876, pp. 159-166; *Ibid.* 1877, pp. 151-163 (8vo. London, 1874-78).
- On the Identification of the First Secondary Fossil found in Australia. *Papers and Proc. R. Soc. Tas.* for 1879 (1880), pp. 18-22.
- and Murray (R. A. F.) Horizontal Section across Quarter Sheet 26, S. E. (Reids Creek) Geol. Survey of Victoria, under the Direction of A. R. C. Selwyn (Melbourne, 1868).
- and Murray (R. A. F.) Report on the Durham Lead, Buninyong, Victoria. *Reports, Mining Surveyors and Regs. Vict.* 30th June, 1874, App. B. pp. 42-53 (fcap. Melbourne); *Smyth's Progress Rept.* No. 2, 1875, *Geol. Survey Vict.* pp. 101-118.
- ETTINGSHAUSEN (Prof. C. F. von) Die genetische Gliederung der Flora Australiens. *Sitz. R. Akad. Wissensch. Wien.* 1875, Abth. 1, Bd. lxx, pp. 542-550.
- Zur Entwicklungsgeschichte der Vegetation der Erde. *Ibid.* 1874, Abth. 1, Bd. lxix, heft 3 pp. 219-236 (Reference to Australian Flora, &c.).
- EVANS (G. W.) A Geographical, Historical, and Topographical Description of Van Dieman's Land, &c. pp. ix and 140 (8vo. London, 1822) (Mineralogy, p. 58).
- EXHIBITIONS, International, 1851 (London). International Exhibition Catalogue, 1851. Reports of the Juries (8vo. London, 1852) (Class I, Mining, &c. vol. i, pp. 36-37).
- International, 1851 (Tasmania). Tasmanian Contributions to the Exhibition of the Industry of all Nations, to be held in London, 1851, pp. 20 (scap. Hobart Town, 1851) (Minerals, Ores, &c. pp. 1-3).

EXHIBITIONS, International, 1855 (Tasmania). Tasmanian Contributions to the Universal Exhibition of Industry at Paris, 1855, pp. 50 (fcap. Hobart Town, 1855) (Class I, Mining and Metallurgical Products, pp. 1-9).

- ✓ — International, 1861 (New South Wales). Catalogue of the Natural and Industrial Products of New South Wales, exhibited in the School of Arts, by the International Commissioners, Sydney, October, 1861, pp. 135 (8vo. Sydney, n.d.) (Minerals, p. 10; Mineral Products, pp. 81-118)—*see also* Clarke (Rev. W. B.); Dalton (F.) and Christoe (J. P.).
- International, 1861 (Victoria). Catalogue of the Victorian Exhibition, 1861; with Prefatory Essays, indicating the Progress, Resources, and Physical Characteristics of the Colony, &c. pp. 300 (8vo. Melbourne, 1861)—*see* Smyth (R. B.); Neumayr (Prof.); McCoy (Prof. F.); Selwyn A. R. C.) and Birkmyre (W.).
- International, 1861 (Victoria) Essais Divers, servant d'introduction au Catalogue de l'Exposition des Produits de la Colonie de Victoria: mettant en relief les Progrès, Ressources, et Caractère physique de la Colonie, pp. 209 (8vo. Melbourne, 1861)—*see previous Authors.*
- International, 1861 (Victoria). Die Colonie Victoria in Australien; ihr Fortschritt, ihre Hilfsquellen und ihr physikalischer Charakter. Mit Zugrundelegung amtlicher Quellen dargestellt in Abhandlungen (8vo. Melbourne, 1861)—*see previous Authors.*
- International, 1862 (N. S. Wales). Catalogue of the Natural and Industrial Products of New South Wales, with a Map and Introductory Account of its Population, Commerce, and general Resources, pp. 64 (large 8vo. London, 1862) (Mineral Products, p. 43; Minerals and Rocks, p. 51)—*see* Clarke (W. B.); Dalton (P.); Christoe (J. P.); Keen (W.).

EXHIBITIONS, International, 1862 (Queensland). International Exhibition, 1862. Catalogue of the Natural and Industrial Products of Queensland, pp. 48 (8vo. London, 1862) (Coal, p. 13 ; Copper, p. 14).

— International, 1862 (S. Australia). Catalogue of Articles, the produce of South Australia, exhibited in the South Australian Court of the Great Exhibition Building, 1862, pp. 4 (8vo. London, 1862) (Mines and Minerals, p. 1).

— International, 1862 (W. Australia). Descriptive Catalogue of the Collection of Products and Manufactures contributed by the Colony of Western Australia to the International Exhibition of 1862, pp. 32 (8vo. London, 1862) (Section I, Mining, &c. pp. 8-9)—*see* Gregory (F.) ; and Sampson (L.).

✓ — International, 1862 (London). London International Exhibition of 1862. Reports of the Juries (8vo. London, 1863) (Class I, Mining, &c. pp. 1-34).

— International, 1872 (Queensland). Catalogue of Objects exhibited in the Queensland Annexe, International Exhibition, 1872 (8vo. London, 1872) (Geological and Mining information, pp. 7-96). *Coll. Guardian*, 1874, xxviii, p. 557.

— International. London International Exhibition of 1873 (Melbourne, 1872-73). Official Record, containing Introduction, Catalogues, Reports and Recommendations of the Experts, Official Awards of the Commissioners, and Essays, and Statistics on the Social and Economic Resources of the Colony of Victoria, pp. xxiii and 223 (8vo. Melbourne, 1873) (Ores, Building Stone and Coal, pp. 114 and 190 ; Mineralogical Specimens, pp. 126 and 199).

— International. The Vienna Universal Exhibition of 1873. Victoria, Australia. Official Catalogue of Exhibits, pp. 31 (8vo. Melbourne, 1873) (Ores, Coal, and Minerals, p. 21).

- EXHIBITIONS, International. The London International Exhibition of 1873. The Victorian Exhibition. Official Catalogue of Exhibits, pp. viii and 31 (8vo. Melbourne, 1873) (Ores, Coal, and Minerals, p. 21)—*see* Ellery (R. L. J.) ; Smyth (R. B.) ; Internat. Exhib. Essays, 1873, Nos. 2 and 3.
- International, 1876 (Philadelphia). Philadelphia International Exhibition, 1875. Official Catalogue of the British Section, part 1, pp. 418 (4to. London, 1876) (Colonial Section, pp. 303-418).
- International, 1876 (Philadelphia). Philadelphia Centennial Exhibition of 1876 (Melbourne, 1875). Official Record containing Introduction, Catalogues, Official Awards of the Commissioners, Reports and Recommendations by the Experts, and Essays and Statistics on the Social and Economic Resources of the Colony of Victoria, pp. xxxiii and 382 (8vo. Melbourne, 1875) (Department I, Minerals, &c. pp. 1-14).
- International, 1876 (Philadelphia). Philadelphia Centennial Exhibition, 1876. Victoria, Australia. Official Catalogue of Exhibits, Essays, &c. pp. viii and 255 (8vo. n.d.) (Department I, Mining and Metallurgy, pp. 1-71)—*see* Bleasdale (Rev. Dr. J. J.).
- International, 1878 (Paris). Paris Universal Exhibition of 1878. Catalogue of the British Colonies, pp. 174 (8vo. London, n.d.) (N. S. Wales, Mining and Metallurgy, p. 99 ; Victoria, ditto, p. 117 ; Queensland, ditto, p. 136 ; S. Australia, ditto, p. 145 ; W. Australia, a Collection of Rocks and Fossils, p. 159).
- International, 1878 (Paris). Paris Universal Exhibition of 1878. Victoria, Australia, Official Catalogue of Exhibits, pp. 274 (8vo. London, 1878) (Rocks and Minerals, &c. pp. 34-182)—*see* Pechar (J.).
- International, 1878 (Paris). The Paris Exhibition of 1878. *Coll. Guardian*, 1878, xxxvi, No. 291, pp. 293-294 (Mining and Mineral Exhibits of Victoria, N. S. Wales, S. Australia and Queensland).

EXHIBITIONS, International—*see* Lucas (Hon. J.) ; McCoy (Prof. F.) ; Selwyn (A. R. C.) ; Smyth (R. B.) ; Clarke (Rev. W. B.) ; Dalton (F.) ; Christoe (J. P.) ; Keene (W.) ; Bleasdale (Rev. Dr. J. J.) ; Gregory (F.) ; Sampson (L.).

EXPLORATION—United States Exploring Expedition under Capt. Wilkes. *American Jour. Sc.* 1843, xliv, pp. 393-408 (N. Holland, p. 407).

— Journals of—*see* Austin (R.) ; Baines (T.) ; Brown (H. Y. L.) ; Burr (T.) ; Cunningham (A.) ; Currie (Capt. J. M.) ; Darwin (C.) ; Eyre (E. J.) ; Forrest (J.) ; Gawler (Col.) ; Giles (E.) ; Gosse (W. C.) ; Gray (Sir G.) ; Hann (W.) ; Howitt (W.) ; Jukes (Prof. J. B.) ; King (Capt. P. P.) ; Leichhardt (L.) ; Macgillivray (J.) ; Mitchell (Sir T. L.) ; Oxley (J.) ; Stuart (J. McD.) ; Sturt (Capt. C.) ; Warburton (Col. P. E.).

EYRE (E. J.) Expeditions of Discovery in South Australia. *Jour. R. Geogr. Soc.* 1843, xiii, pp. 161-181.

— Notice of the Lower Course of the River Darling. *Ibid.* 1845, xv, pp. 327-331.

— Journal of Expeditions of Discovery into Central Australia, and overland from Adelaide to King George's Sound in 1840-1841 (2 vols. 8vo. London, 1845).

✓ — Considerations against the supposed existence of a great Sea in the Interior of Australia. *Jour. R. Geogr. Soc.* 1846, xvi, pp. 200-211.

FAIRFAX (J.) The Colonies of Australia: their Formation, Progress, and Present State; the Discovery of the Gold Fields, &c. 2nd ed. (8vo. London, 1852) (Discovery of Gold, p. 25).

✓ FALCONER (Dr. H.) On the Species of *Mastodon* and Elephant occurring in the Fossil State in Great Britain. Part I, *Mastodon*. *Quart. Jour. Geol. Soc.* 1857, xiii, pp. 308-360 (*Mastodon Australis*, Ow. p. 319, and Synop. Table).

— On the disputed affinity of the Mammalian genus *Plagiaulax*, from the Purbeck Beds. *Ibid.* 1862, xviii, pp. 384-389 (Carnassial tooth of *Thylacoleo*, p. 368).

- ✓ FALCONER (Dr. H.) On the American Fossil Elephant, &c. *Nat. Hist. Review*, 1863, pp. 43-114 (Occurrence of *Mastodon* in Australia, pp. 96-101).
- ✓ — Palaeontological Memoirs and Notes, compiled and edited by C. MURCHISON, M.D. (2 vols. 8vo. London, 1868) (*Mastodon Australis*, Owen, i, pp. 64 and 105; asserted occurrence of *Mastodon* in Australia, i, 271-276).
- FARRER (W.) Relation of Natural Grasses to the Rock of the Country they grow on, as regards their material Constituents, and application to the Pastures of this Colony. *Jour. R. Agric. Soc. N. S. Wales*, 1877, 3rd ser. pt. 3, pp. 259-264.
- FEISTMANTEL (Dr. O.) Palaeontologia Indica, &c. ser. xi, 1, Jurassic (Oolitic) Flora of Kach. pp. 80, pls. 12 (folio, Calcutta, 1876) (Reference to *Alethopteris Australis*. Morris).
- Notes on the age of some Fossil Floras in India. *Records, Geol. Survey of India*, 1876, ix, pts. 3 and 4; *Ibid.* 1877, x, pt. 3, pp. 133-140, pl. 4, pp. 196-203.
- Flora of the Jabalpur Group (Upper Gondwanas) in the Sou-Narbada region. *Palaeontologia Indica*, ser. xi, No. 2, pp. 25 (Calcutta, 1877).
- On the Jurassic (Liassic) Flora of the Rajmahal Group, in the Rajmahal Hills. *Ibid.* ser. ii, no. 2, 1877 (*Alethopteris Australis*, p. 89; *Tæniopteris*, p. 95).
- Ueber das Verhältniss gewisser fossilen Floren und Landfaunen unter einander und zu den gleichzeitigen Meeres faunen in Indien, Afrika, und Australien, pp. 38 (8vo. Calcutta, 1877)—see also *Neues Jahrbuch*, 1878, p. 669.
- Palaeontologische Beiträge, iii, Palaeozoische und mesozoische Flora des östlichen Australiens. *Palaeontographica*, 1878, suppl. iii, Leiferung, iii, Heft. 2, pp. 53-84, pls. 1-10; Heft. 3, pp. 85-130, pls. 11-18; Heft. 4, 1879, pp. vii and 133-195, pls. 19-30.

FEISTMANTEL (Dr. O.) Notes on the Fossil Flora of Eastern Australia and Tasmania. *Geol. Mag.* 1879, Dec. 2, vi, pp. 485-92; *N. Jahrbuch*, 1880, ii, pp. 253-56.

✓ FIELD (Baron) On the Rivers of New South Wales. *Field's Geograph. Mem. on N. S. Wales, &c.* 1825 (8vo. pp. 297-312) (A paper read before the Philosophical Society of Australia on 3rd July, 1823, and only published as above).

FISCHER (P.) Note sur les Roches fossilifères de l'Archipel Calédonien. *Bull. Soc. Géol. de France*, 1867, 2nd ser. xxiv, pp. 457-458.

FISH, Fossil—*see* Davies (W.); Egerton (Sir P. de M. G.); Traquair (Dr. R. H.).

✓ FITTON (W. H.) On the Structure of North-western Australia. *Proc. R. Geogr. Soc.* 1857, i, pp. 501-503.

— An account of some Geological Specimens, collected by Capt. P. P. King, in his Survey of the Coasts of Australia, and by Robert Brown, Esq., on the Shores of the Gulf of Carpentaria, during the Voyage of Captain Flinders. *Phil. Mag.* lxviii, pp. 14-34, 132-147.

FLIGHT (Dr. W.) A Chapter in the History of Meteorites. *Geol. Mag.* 1875, ii, pp. 16, 70, 115, 152, 214, 257, 311, 362, 401, 497, 548, 589 (The Deniliquin Meteorite, p. 264; the Cranbourne Meteorite, p. 552).

FLINDERS (Mathew) A Voyage to Terra Australis, in the years 1801-1803, in H.M.S. "Investigator," &c. (2 vols. 4to. and Atlas, 1814).

— Island—*see* Gould (C.); Johnston (R. M.); Milligan (Dr. J.).

FLINT Implements—*see* Baines (T.); Smyth (R. B.).

✓ FLOWER (W. H.) On the Affinities and probable Habits of the Extinct Australian Marsupial *Thylacoleo carnifex* (Owen). *Quart. Jour. Geol. Soc.* 1868, xxiv, p. 307; *Geol. Mag.* v, p. 286; *N. Jahrbuch*, 1869, p. 766.

FLUDE (T.) Letter on a sample of Coal from near Green Ponds, Tasmania. *Proc. R. Soc. Tas.* 1855, iii, pt. 1, p. 192.

✓ FOETTERLE (F.) Schädelabguss des *Zygomaturus trilobus*. *Verhandl. der K. K. Geol. Reichsanstalt (Jahrbuch.)* x, p. 177.

FOORD (G.) On the Occurrence of the Diamond, and Chlorobromide of Silver amongst the Gold Ores of Australia. *Chem. News*, 1862, vi, p. 14.

— Analytical Report on Specimens of Iron Ore from near Ilfracombe, Tas. *Papers and Proc. R. Soc. Tas.* 1866 (September) pp. 84-85.

— Notes on Enhydros found at Beechworth. *Trans. R. Soc. Vict.* 1874, x, pp. 71-76 (2 plates).

— On a Specimen of Native Copper recently found at Footscray, near Melbourne. *Ibid.* 1874, x, pp. 131-135.

FORAMINIFERA—*see* Etheridge (R., jun.) ; Parker (W. K.) and Jones (Prof. T. R.) ; Tate (Prof. R.).

FORBES (D.) On the Geological Epoch at which Gold has made its appearance in the crust of the Globe. *Geol. Mag.* 1866, iii, p. 385.

✓ — (Prof. E.) Our knowledge of Australian Rocks as derived from their Organic Remains. *Lecture 2, Lectures on Gold*, 2nd edit. 1853, pp. 39-67.

FORREST (J.) Journey across the Western Interior of Australia, from Champion Bay and Murchison River on the West, to Peak Station on the Telegraph Line. *Proc. R. Geogr. Soc.* 1875, xix, pp. 57, 310, 481.

— Explorations in Australia, pp. 354 (8vo. London, 1875) (4 maps, plates, &c.).

— Journal of the Western Australian Exploring Expedition through the centre of Australia, from Champion Bay to the Overland Telegraph Line between Adelaide and Port Darwin. *Jour. R. Geogr. Soc.* 1875, xlv, pp. 249-299 (map).

FORREST (J.) Journal of Proceedings of the Western Australian Exploring Expedition through the Centre of Australia, from Champion Bay on the West Coast, to the Overland Telegraph Line between Adelaide and Port Darwin, commanded by John Forrest, F.R.G.S., pp. 39 (fcap. Perth, 1875) with map—see Smyth (R. B.).

FOSSILS—Fossiles silurien trouves à Nouvelle Hollande. *Bull. Soc. Géol. de France*, 1840, xi, p. 177.

— Silurian Fossils from Hobart Town. *Tas. Jour. Nat. Science*, ii, No. 11, pp. 456-457.

FOWLER (W.) Sections of Strata made at Yarrow, in the Hundred of Clinton, on the West Side of head of St. Vincent's Gulf. *Trans. R. Soc. S. Australia*, 1880, iii, p. 181.

FRANKLAND (G.) A Notice on Maria Island, on the East Coast of Van Dieman's Land. S. Lat. $42^{\circ} 44'$, E. Long. $148^{\circ} 8'$. *Proc. Geol. Soc.* 1836, ii, p. 415; *Phil. Mag.* 1836, ix, p. 496; *Jahrb. für Mineralogie*, 1838, p. 337.

FRASER (C.) Remarks on the Botany, &c. of the Banks of Swan River, Isle of Buache, Baie Géographe, and Cape Naturaliste. *Hooker's Bot. Miscellany*, 1830, i, pp. 221-236 (Contains geological notes).

— Journal of a Two Months' Residence on the Banks of the Rivers Brisbane and Logan, on the East Coast of New Holland. *Ibid.* 1830, i, pp. 237-269 (Accompanied by geological notes).

FREYCINET (Louis) Voyage de Découvertes aux Terres Australes, &c. Navigation et Géographie, avec un Atlas, pp. 576 (4to. Paris, 1815) (Geological notes on French Islands, &c. p. 112).

FROMENTEL (E. de) Introduction a l'Étude des Polypiers Fossiles, &c. pp. 357 (8vo. Paris, 1858-61) (*Stenopora*, species of, p. 275).

GARRETT (Rev. J.) On Asbestos in Serpentine, from the base of the Asbestos Mountains, Tasmania. *Proc. R. Soc. V. D. Land*, 1852, ii, pt. 1, p. 157.

GARROD (H. A.) On the Kangaroo called *Halmaturus luctuosus*, by d'Albertis, and its affinities. *Proc. Zool. Soc.* 1876, pp. 48-59 (Reference to *Protomnodon*, Owen, &c.).

GAWLER (His Excellency Gov. G.) Notes made during a Journey into the Interior. *Royal S. Aust. Almanack for 1839*, pp. 45-47.

— Notes on the Geological Examination of the country bordering Lake Alexandria and the Murray. *The Southern Australian*, 1840, iii, No. 85, p. 16.

— Notes on the Geography and Geology of the Wakefield Range of Mountains, S. Australia. *The S. Austr. Register*, 1841, iv, No. 163.

GEIKIE (Prof. A.) Life of Sir R. I. Murchison, Bart., K.C.B., F.R.S., &c. (2 vols. 8vo. London, 1875) (Discovery of Gold in Australia, ii, pp. 131-136).

— (Dr. J.) The Great Ice Age and its Relation to the Antiquity of Man, pp. xxiii and 575, pls. 17, 1874; 2nd ed. pp. xxvii and 624, pls. 19, 1877 (8vo. London, 1874 and 1877) (Australian Conglomerates, pp. 513 and 568 respectively).

GEMS—Queensland Gems—Opals. *The Queenslander*, 1875, new ser. x, No. 11, p. 24—see also Bleasdale (Rev. J. J.)

— see Bleasdale (Rev. J. J.); Church (Prof. A. H.); Stephen (G. M.).

GEOLOGY—The Geology of South Australia. *Royal S. Austr. Almanack for 1841*, pp. 58-68 (Contains a list of Minerals found in S. A. by Mr. Menge, p. 62).

— The Geology in Silver's "Handbook for Australia and New Zealand," pp. 21-28 (8vo. London, 1874).

✓ GERVAIS (P.) Histoire Naturelle des Mammifères avec l'indication de leurs mœurs, et de leurs rapports avec les Arts, le Commerce, et l'Agriculture. (2 vols. roy. 8vo. Paris, 1854) (Genera *Nototherium* and *Diprotodon*, i, p. xxii; Australian Marsupials, ii, p. 266 et seq.).

- ✓ GERVERAIS (P.) Mémoire sur les formes cérébrales propres aux Marsupiaux. *Nouv. Archives du Mus. d'Hist. Nat.* 1869, v, pp. 229-251, pls. 13 and 14.
- Sur les formes cérébrales des Mammifères marsupiaux, édentés et carnivores. *Bull. Soc. Géol. de France*, 1870, xxviii, pp. 14-15.
- GIBBONS (S.) Note on the Cranbourne Meteorite. *Trans. R. Soc. Vict.* 1874, x, pp. 130-131.
- GILES (E.) South Australia. Mr. Ernest Giles's Explorations, 1872. Diary of Explorations of Mr. Ernest Giles in Central Australia, August to November, 1872, No. 21, pp. 32 (fcap. [? Adelaide], 1873).
- South Australia. Mr. E. Giles's Explorations, 1873-4, No. 215, pp. 69 (fcap. [? Adelaide], 1874). With map of the Country West of the Telegraph Line in the Interior of Australia, explored by Mr. E. Giles.
- Geographic Travels in Central Australia, from 1872 to 1874, pp. 223 (8vo. Melbourne, 1875, with map).
- South Australia. Giles's Explorations, 1875, No. 22, pp. 16 (fcap. [? Adelaide], 1876). With map of Explorations from Beltana Station in the Colony of South Australia to the City of Perth in Western Australia, 1875.
- South Australia. E. Giles's Explorations, 1875-6. Proceedings of the Hon. Thos. Elder's Expedition under the command of Ernest Giles from Perth to Adelaide, No. 18*, (fcap. [? Adelaide], 1876). With map showing the routes travelled, and Discoveries made by the Exploring Expedition equipped by the Hon. Thos. Elder, &c., between the years 1872-76.
- Journey of Exploration from South to Western Australia in 1875. *Jour. R. Geogr. Soc.* 1876, xlvi, pp. 328-57.
- GIPPSLAND—see Howitt (A. W.); Murray (R. A. F.); Rawlinson (T. E.); Skene (A. J.) and Smyth (R. B.); Taylor (N.).

GIPPSLAND Lakes—*see* Rawlinson (T. E.).

— Mining District—*see* Howitt (A. W.).

GIRARD (Prof. H.) Beiträge zur Geologie von Australien von Ludwig Leichhardt. *Abhandl. der Naturfor. Gesellsch. zu Halle. Jahrg.*, 1855, iii, pp. 1-62.

GLACIAL Action, and Epoch—*see* Croll (Dr. J.); Geikie (Dr. J.); Haast (Dr. J.); Hutton (Capt. F. W.); Tate (Prof. R.); Woods (Rev. J. E. T.).

GOALEN (Lieut. W. N.) Sections of Port Adelaide Creek, from the Outer Bar to the Port Bridge. *S. Australian Parl. Papers*, 1876, No. 85, 2 plans of sections.

GOBLE (G. F.) Gold in Tasmania. *Mining Jour.* 1862, xxxii, p. 410.

GOLD—The Existence of Gold in New South Wales. *Ibid.* 1851, xxi, p. 445.

— Prediction of the Existence of Gold in Australia. *Ibid.* 1851, xxi, p. 529.

— Gold in Australia. *Gentleman's Mag.* 1851, xxxvi, pp. 420, 643; 1852, xxxvii, p. 507.

— Correspondence relative to the Recent Discovery of Gold in Australia. *Parl. Blue Book*, Feb. 3rd, 1852, pp. 76 (London, fcap. 1852).

— Further Papers relative to the Discovery of Gold in Australia. *Ibid.* June 14th, 1852 (N. S. Wales, pp. 1-39; Victoria, pp. 42-101; South Australia, pp. 104-114; V. D. Land, pp. 116-123, with Appendices and Maps) (London, fcap. 1852).

— Further Papers relative to the recent Discovery of Gold in Australia. *Ibid.* Feb. 28th, 1853, pp. 433 (N. S. Wales, pp. 1-152, Victoria, pp. 153-333; S. Australia, pp. 336-411, with Appendices and Maps) (fcap. London, 1853).

— Further Papers relative to the recent Discovery of Gold in Australia. *Ibid.* Aug. 16th, 1853, pp. 222 (N. S. Wales, pp. 1-44; Victoria, pp. 46-127, S. Australia, pp. 130-161; V. D. Land, p. 164, with Appendices and Maps) (fcap. London, 1853).

GOLD—Discovery of Gold in Australia. Appendix to Answers 12 and 13, in the Evidence of the Rev. W. B. Clarke, M.A., F.G.S., taken before the select Committee on the Management of the Gold Fields, on Friday, 24th Sept. 1852, pp. 4 (fcap. Sydney, 1854)—*see* Gold Fields, Select Committee.

- Further Papers relative to the Discovery of Gold in Australia. *Parl. Blue Book*, Feb. 16th, 1854, pp. 205 (N. S. Wales, pp. 1-66; Victoria, pp. 68-198; S. Australia, p. 200) (fcap. London, 1854).
- Further Papers relative to the Discovery of Gold in Australia. *Ibid.* Dec. 1854, published 1855 (N. S. Wales, pp. 1-71; Victoria, pp. 74-177; with Maps and Appendices) (London, fcap. 1854).
- Further Papers relative to the Discovery of Gold in Australia. *Ibid.* July 15th, 1855, pp. 114 (N. S. Wales, pp. 1-26; Victoria, pp. 28-106; V. D. Land, pp. 110-111; W. Australia, p. 114) (fcap. London, 1855).
- New South Wales, 1854. Discovery of Gold in Australia (Sir R. Murchison's Claim). Ordered by the Council to be printed, pp. 6 (fcap. Sydney, 1854)—*see* Gold Fields, Select Committee; Clarke (Rev. W. B.).
- Further Papers relating to the Discovery of Gold in Australia. *Parl. Blue Book*, Feb. 1856, pp. 82 (N. S. Wales, pp. 1-8; Victoria, pp. 10-82) (fcap. London, 1856).
- Further Papers relating to the Discovery of Gold in Australia. *Ibid.* July, 25th, 1856, pp. 39 (N. S. Wales, pp. 1-16; Victoria, pp. 18-39) (fcap. London, 1856).
- Further Papers relating to the Discovery of Gold in Australia. *Ibid.* Aug. 25th, 1857, pp. 109 (N. S. Wales, pp. 1-36; Victoria, pp. 38-79; Tasmania, pp. 82-103) (fcap. London, 1857).
- The Original Discoverer of Gold in Australia. *Mining Jour.* 1853, xxiii, pp. 11, 191; 1852, xxii, p. 46.

GOLD—Lectures on Gold for the Instruction of Emigrants about to proceed to Australia, delivered at the Museum of Practical Geology, 2nd ed. pp. 215 (8vo. London, 1853) (By J. Beete Jukes, Ed. Forbes, Lyon Playfair, W. W. Smyth, John Percy, and Robert Hunt, which *see* respectively).

- Assays, made at the Sydney Branch of the Royal Mint, of 48 specimens of New South Wales Gold, from the Collection exhibited in the Australian Museum, prior to transmission to Paris, December, 1854. *British Catalogue, Exposition Universelle, Paris, 1855*, p. 108 (large 8vo. London, 1855).
- The Gold Yield of Victoria from 1851 to 1858. *Jour. American Geogr. and Statistical Soc.* 1859, Nos. 1-3, p. 27.
- The Discoverer of Gold in Australia (Dr. Lhotsky). *Mining Jour.* 1860, xxx, pp. 346, 369, 382, 486.
- Victorian Gold Mines; Continuous Water Supply. *Ibid.* 1860, xxx, p. 434.
- Gold Deposits in Australia. *Ibid.* 1860, xxx, pp. 502-504.
- (*Civis*) First Discovery of Gold in Australia. *Ibid.* 1867, xxxvii, p. 788.
- The Gold Mines of Victoria, Australia, No. 1. *Ibid.* 1869, xxxix, p. 239; No. 2. *Ibid.* p. 259; No. 3. *Ibid.* p. 276.
- The Discovery of Gold in New South Wales. *Ibid.* 1870, xl, p. 853.
- The Discoverer of Gold in Australia. *Ibid.* 1877, xlvii, p. 1171.
- Gold of Queensland. *Iron,* 1880, xv, p. 296.
- Chemical Properties of—*see* Playfair (Dr. L.).
- Dressing of—*see* Smyth (W. W.).
- Deposits, N. S. Wales—Sur les Gisements Aurifères de Nouvelle Galles du Sud (Australie). *Ann. École des Mines,* 1859, 5^e sér. xvi, 5^e et 6^e livr. p. 577.

GOLD Fields—Another “Gold Field” discovered. *Mining Jour.* 1849, xix, pp. 247, 262.

— — — Board of Science. Second Annual Report (on the Gold Fields). Presented to both Houses of Parliament by His Excellency’s command. No. 48, pp. 40 (fcap. Melbourne, 1859-60).

— — — Regulations—New South Wales. Regulations for the Management of the Gold Field. Published by Authority, pp. 9 (8vo. Sydney, 1852).

— — — Australian—The Australian Gold Fields. *Sydney Empire*, Jan. 28th, 1861.

— — — N. S. Wales—The Southern Gold Fields of New South Wales. *Mining Jour.* 1858, xxviii, p. 113 (with a section).

— — — N. S. Wales—*see* Clarke (Rev. W. B.); Hardy (J. R.); Odernheimer (Dr. F.); Stutchbury (S.); Wilkinson (C. S.).

— — — North Australia—*see* Plunkett (J. A.).

— — — Queensland—*see* Allen (C. H.); Bowen (Sir G.); Clarke (Rev. W. B.); Daintree (R.); Griffin (T. J.); Hackett (T. R.); Hilliard (W. E.); Hodgkinson (W. O.); Jack (R. L.); Jardine (J.); Kayser (E. A.); King (H. E.); Lambert (C. H.); Mulligan (J. V.).

— — — Select Committee. Extract from Minutes of Evidence taken before the Select Committee on the Management of the Gold Fields, Friday, 24th September, 1852. *Discovery of Gold in Australia (Sir R. Murchison’s Claim)*, N. S. Wales, 1854, pp. 3-6 (fcap. Sydney, 1852)—*see* Gold, Sir R. Murchison’s Claim; Clarke (Rev. W. B.).

— — — South Australia—*see* Hargraves (E. H.); Peterswald (W. J.); Selwyn (A. R. C.).

— — — Tasmania—The Fingal Gold Field, Tasmania. *Mining Jour.* 1856, xxvi, p. 804 (An Extract from a Report by the Rev. W. B. Clarke).

- GOLD Fields Tasmania—*see* Gould (C.) ; Milligan (Dr. J.).
- — Victoria—The Geology of the Gold Fields of Victoria. *Mining Jour.* 1854, xxiv, p. 369.
- — Victoria—The Gold Fields of Victoria. *Ibid.* 1854, xxiv, p. 698.
- — Victoria—Gold Fields Statistics, 1861. Presented to both Houses of Parliament by His Excellency's command. No. 100, pp. 19 (fcap. Melbourne, 1861-62); *Ibid.* 1863, No. 20, pp. 19 (fcap. Melbourne, 1864).
- — Victoria—*see* Symth (R. B.) ; Couchman (T.) ; Hargraves (E. H.) ; Hopkins (E.) ; Howitt (A. W.) ; Kitto (R. L. M.) ; Phillipps (J.) ; Redway (W.) ; Rosales (H.) ; Selwyn (A. R. C.) ; Smith (A.) ; Thompson (H. A.) ; Wathen (G. H.).
- The Victorian Gold Fields. *Iron*, 1878, xi, p. 267.
- Nuggets in Drift—*see* Skey (W.) ; Wilkinson (C. S.).
- and other Minerals—Yield of, in N. S. Wales—*see* Wood (H.).
- Separation of—*see* Smith (J.).
- Supply. The Australian Colonies and the Gold Supply (8vo. London, 1858).
- *see* Birkmyre (W.) ; Calvert (J.) ; Clarke (Rev. W. B.) ; Daintree (R.) ; Dalton (—) ; Davison (S.) ; Denison (Sir W. T.) ; Erskine (J. E.) ; Forbes (D.) ; Goble (G. F.) ; Grieves (A. F. A.) ; Hargraves (E. H.) ; Hunt (R.) ; Leibius (Dr. A.) ; Marshall (H.) ; Miller (F. B.) ; Murchison (Sir R. I.) ; Nisser (P.) ; Playfair (Dr. L.) ; Stevens (T.) ; Thompson (H. A.) ; Wilkinson (C. S.) ; Wolff (G.) ; Wyld (J.) ; Scoffern (I.).
- GOSSE (W. C.) South Australia. W. C. Gosse's Exploration, 1873. Report and Diary of Mr. W. C. Gosse's Central and Western Exploring Expedition, 1873. No. 48, pp. 23 (fcap. Adelaide, 1874), with 4 maps.
- Explorations in Central Australia during 1873. *Proc. R. Geogr. Soc.* 1875, xix, pp. 51-53.

- GOULD (C.) Geology of Tasmania. *Geologist*, 1861, iv, p. 536. *
- Report on the Resinous Shales of the River Mersey, Tasmania, pp. 3 (fcap. Hobart Town, 1861) (containing Geological Map of the Parish of Forrabury, County of Devon, and three Sections. Scale: 10 chains to 1 inch).
- Report on the Mersey River Coal Fields, pp. 10 (Hobart Town, 1861).
- Report on the Coal Fields of the Break o'Day Valley, and upon a portion of the South-east Coast of Tasmania, pp. 22 (fcap. Hobart Town, 1861). Containing—
 (a) Geological Map of the Mount Nicholas and Douglas River Coal Fields. Scale: one inch to a mile. (b) Horizontal Sections to accompany the same. Scale: Hor. one inch to a mile; Vert. $2\frac{1}{2}$ in. to one mile. (c) Two sheets, vertical sections, Douglas River Coal Fields. Scale: 2 feet to one inch, &c. (d) Vertical Sections of Seams worked by the Douglas River Coal Company. Scale: 2 ft. to 1 inch.
- On Measures for ascertaining the Commercial Value of Coal from different localities in Tasmania, pp. 4 (fcap. Hobart Town, 1861).
- Results of the Geological Survey of Tasmania. *Brit. Assoc. Report for 1861*, pt. 2, p. 112 (1862).
- On the Structure of the Country between Macquarie Harbour and the Frenchman's Cap, Tas. *Papers and Proc. R. Soc. Tas.* 1860 (September), p. 1.
- On the Geology of the Fingal (Gold-bearing) District. *Ibid.* 1863 (July), pp. 1 and 2.
- On the Geology of a part of the County of Dorset, Tas. *Ibid.* 1864 (August), pp. 70 and 71.
- Tasmania. A "Copy of the Report of Mr. Gould, the Government Geologist, upon the subject of Gold in the Colony of Van Dieman's Land, referred to in the last Report of the Governor of Tasmania, 1862," pp. 8 (fcap. [? Hobart Town], 1864), with Geological Map of W. Tasmania.
- Notes on the Geological Structure of the North-east Coast of Tasmania. *Proc. R. Soc. Tasmania*, 1865 (July), pp. 63-66.

- GOULD (C.) On the Position of the Gordon Limestones, relatively to other Palæozoic Formations, &c. *Proc. R. Soc. Tasmania*, 1866 (April), pp. 27-29.
- Observations on a Paper by Mr. W. Allport, "Notice of some Fossils recently discovered near Risdon, Tasmania." *Ibid.* 1866 (August), p. 72.
- Report upon the Geological Structure of the Country near Ilfracombe, Tasmania. *Ibid.* 1866 (September), p. 84.
- Map of a Portion of Western Tasmania explored during the summer of 1860 by an Expedition under the command of Charles Gould, B.A., F.G.S., Government Geologist. Scale: $2\frac{1}{2}$ English miles to 1 inch (The soundings of Lake St. Clair are given in fathoms).
- On the Geological Structure of Flinder's Island in Bass' Straits. *Papers and Proc. R. Soc. Tasmania*, for 1871 (October), p. 53.
- On the Islands in Bass' Straits. *Ibid.* for 1871 (November), pp. 57-67.
- La Carte Géologique de la Tasmanie. *Marcou's Explication d'une 2me. édition de la Carte Géol. de la Terre*, 1872, p. 204.
- On Specimens of Rutile, Anatase, and Brookite found in Tasmania. *Papers and Proc. R. Soc. Tas.* for 1873 (November), p. 57 (1874).
- Note upon a Recent Discovery of Tin Ore in Tasmania. *Quart. Jour. Geol. Soc.* 1875, xxxi, pp. 109-110.
- (Le) Geographical and Geological Discoveries in Queensland. *Geol. Mag.* 1864, i, p. 142; *Queensland Daily Guardian*, 1864, Feb. 16th.
- GOWER (G. H.) Report on the Vegetable Creek Tin Field. *Mines and Mineral Statistics, N. S. Wales*, for 1874, pp. 63-70 (with Plan of the Dressing Machinery designed by W. H. Wesley).

GOWER (G. H.) Report on the New England and Clarence District. Vegetable Creek Division (Tin Field, &c.). *Ann. Report, Dept. of Mines, N. S. Wales, for 1876*, pp. 110-114; with—

(a) Plan of Tin Dressing Machine. Scale : $\frac{1}{8}$ ths of an inch to 1 ft. (b) Vegetable Creek Tin Mines—a sketch showing the aggregate yield of Ore from each mine, from the commencement of mining operations in the year 1872 to 31st December, 1876.

— Report on the New England and Clarence Mining District. Vegetable Creek Division. *Ibid. for 1877*, pp. 141-151 (with Plan of Lands containing Deep Deposits of Tin Ore in the Parishes of Strathbogie and Scone, Co. of Gough. Scale: 20 chains to 1 inch, and seven small vertical sections).

— Report on the New England and Clarence Mining District. Vegetable Creek Division. *Ibid. for 1878*, pp. 126-130 (with a Sketch Plan of the Vegetable Creek Mining District, showing the approximate position of the Creeks, and localities of the principal Mines working for Stream Tin under Basaltic formation, and of the Tin lodes. Scale: 4 miles to 1 inch).

— Report on the Condition and Prospects of the Vegetable Creek Tin Mining District for the year 1879. *Ibid. for 1879*, pp. 149-156 (with Plan and Section of Messrs. Wesley, Bros. Workings, two plans of machinery, and a table showing total yield of Tin Ore from the Vegetable Creek Tin Mining District).

GOYDER (G. W.). South Australia. Northern Territory Survey Progress Reports, No. 31, pp. 4 (fcap. Adelaide, 1869) (Gold, p. 2).

— South Australia. Survey of Northern Territory. Copy of Surveyor-General's Report on Survey of Northern Territory, No. 157, pp. 5 (fcap. Adelaide, 1869) (Minerals, p. 4).

GRAD (A. C.) L'Australie Intérieure. Explorations et Voyages à travers le Continent Australien de 1860 à 1862, pp. 187 (8vo. Paris, 1864).

- GRAHAM (—) Report on the New England and Clarence Mining District. *Ann. Report, Dept. of Mines, N. S. Wales, for 1878*, pp. 90-95.
- Report on the New England and Clarence Mining District, N. S. Wales. *Ibid.* 1879, pp. 157-162.
- GRAPTOLITES—*see* Etheridge (R., jun.); Hopkinson (J.) and Lapworth (C.); McCoy (Prof. F.).
- GRAY (Dr. J. E.) On *Cypraea umbilicata*, and *Cypraea eximia* of Sowerby. *Proc. Zool. Soc.* 1849, p. 125; *Proc. R. Soc. V. D. Land*, 1852, ii, pt. 1, pp. 197-98.
- GREGORY (A. C.) Geological Survey of Queensland: Report on the Geology of part of the Districts of Wide Bay and Burnett. *The Queenslander*, 1875, n. ser. x, No. 3, p. 16; also as a Report, pp. 6 (fcap. Brisbane, 1875).
- Report on the Coal Deposits of the West Moreton and Darling Downs Districts, pp. 8 (fcap. Brisbane, 1876).
- Report on the Burrum Coal Mines (fcap. Brisbane, 1879).
- Report on Coal between Dalby and Roma, Southern Queensland (fcap. Brisbane, 1879).
- On the Geological Features of the South-eastern districts of Queensland (fcap. Brisbane, 1879).
- (F.) Minerals of South Australia. *Descrip. Cat. Products and Manufactures, W. Australia, Internat. Exhib.* 1862, pp. 9-12—*see* Exhibitions, International, 1862 (W. Australia).
- (F. T.) Journal of the N. W. Australian Exploring Expedition, under the Authority of H.M. Imperial and Local Governments, aided by Private Contributions, pp. 83 (8vo. 1861).
- On the Geology of a part of Western Australia. *Quart. Jour. Geol. Soc.* 1861, xvi, pp. 475-483; *Phil. Mag.* 4th ser. xxii, p. 246; *Geologist*, iv, p. 296.
- (J. W.) and Gregory (F. T.) Remarks to accompany a Geological Map of Western Australia. *Quart. Jour. Geol. Soc.* 1848, iv, p. 142 (abstract).

- GREGORY and Others. Report on the Mining and Mineral Products of Western Australia. *Descript. Cat. W. Australia, Internat. Exhib. Report*, pp. 8-16 (8vo. London, 1862).
- Expedition to the North-west coast of Australia. *Jour. R. Geogr. Soc.* 1862, xxxii, pp. 372-429.
- A Report on the Tin Discoveries in Queensland. *Quart. Jour. Geol. Soc.* 1873, xxix, p. 1.
- GREY (Sir G.) Journals of two Expeditions of Discovery in N. W. and W. Australia, during the years 1837-1839, performed under the authority of H.M. Government (2 vols. 8vo. London, 1841), map, &c.
- Section of the Country between the East Shore of St. Vincent's Gulf and Lake Alexandria, &c. *Proc. Geol. Soc.* 1842, iv, p. 23.
- GRIEVES (A. F. A.) Discovery of Gold in Australia. *W. H. Archer's Statistical Reporter of Victoria*, 1854, pp. 329-332 (8vo. Melbourne, 1854).
- GRIFFIN (T. J.) Annual Report on the Peak Downs Gold Fields for 1866, pp. 3 (fcap. Brisbane, 1867).
- GUNN (R. C.) On the Habitat of *Cypraea umbilicata* (Sow.). *Proc. Zool. Soc.* 1849, p. 124.
- Geological Notes on a recent Overland Journey from Circular Head, Tasmania. *Proc. R. Soc. V. D. Land*, 1852 (?) ii, pp. 168-169.
- On the Encroachment of the Sea along the North Coast of Tasmania. *Ibid.* 1855, iii, pt. 1, pp. 54-56.
- Letter respecting the discovery of Keys in the Shore formation of Corio Bay, &c. *Trans. R. Soc. Vict.* 1876, xii, pp. 123-24.
- GUPPY (R. J. L.) On Worm-burrowings in some Clays at Bendigo, Australia. *Proc. Geol. Assoc.* 1861, i, No. 7, pp. 161-162.
- On Metamorphism in Certain Strata at Bendigo, Australia. *Ibid.* 1865, i, No. 11, pp. 409-14.

- HAAST (Dr. J.) Notes on the Glacial Epoch in Australia.
Trans. R. Soc. Vict. 1868, viii, p. 273.
- HACKETT (T. R.) Geological and Mining Report on the Gympie Gold Field, pp. 4 (fcap. Brisbane, 1869).
- HAIDINGER (W.) Zwei Meteoreisenmassen in der Nähe von Melbourne in Australien aufgefunden. *Sitz. d. K. Akad. d. Wissensch. Wien.* 1861, xliii, Abth. 2, pp. 583-584.
- Die zwei Cranbourne Meteoreisenblöcke in Victoria. *Ibid.* 1861, xliv, Abth. 2, heft 3, pp. 378-380.
- Die Erster Proben des Meteoreisens von Cranbourne in Australien, *Ibid.* 1861, xliv, Abth. 2, pp. 465-472.
- Das Meteoreisen von Cranbourne im K. K. Hof-Mineralien Cabinet ; ein Geschenk von dem Königlich-grossbritannischen Gouverneur von Victoria in Australien, Sir Henry Barkly. *Ibid.* 1862, xlv, Abth. 2, pp. 65-74 (plate).
- HALL (J.) The Colonisation of Northern Australia, Prince Albert Land ; First Settlement, Burke City, on the Albert River ; the most likely Gold Country out of Victoria, pp. 21 (8vo. Melbourne and Sydney, 1862).
- (T. Y.) Comparative Productiveness of the French, English, Belgian, American, Prussian, Spanish, Saxonian, and Australian Coal Fields, in the Years 1855 and 1856. *Trans. N. of England Inst. Mining Engineers,* 1858, vi, pp. 67-72.
- HALLOY (J. J. d'Omalius d') *Précis Elémentaire de Géologie* (8vo. Paris, 1843)—see pp. 44, 96, and 97.
- HAMILTON (A.) On the Foraminifera of the Tertiary Beds at Petane, near Napier. *Trans. N. Zealand Inst.* 1881, xiii, pp. 393-396, pl. 16 (References to Victorian localities and species).
- HANN (W.) Narrative of an Exploring Expedition in Northern Queensland, Australia. *Proc. R. Geogr. Soc.* 1874, xviii, pp. 87-107 (Geological Notes by Mr. Norman Taylor).
- HANSON (His Honour Chief Justice) The Geology of the South-east (of S. Australia). *Trans. Phil. Soc. Adelaide for* 1866 (pub. 1867).

HARCUS (W.) South Australia; its History, Resources, and Productions, pp. xv and 432, maps and plates (8vo. London, 1876) (Mines and Mining, p. 86, 297, &c.)—see Austin (J. B.) ; Plunkett (J. A.).

HARDMAN (W.) Explorations in Australia. *The Journal of John McDonall Stuart during the years 1858-1862, &c.* pp. xxiv and 511 (8vo. London, 1864).

HARDY (J. R.) Reports from J. R. Hardy, Esq., Commissioner of Crown Lands, with respect to the Summer Hill, Turon, and Araluen Diggings. *Papers relative to Geol. Surveys N. S. Wales*, 2nd Dec. 1851, Nos. 61-73, pp. 95-109 (fcap. Sydney, 1852).

— Report on the present state and future prospects of the Western and Southern Gold Fields, with Appendices. *Papers relative to the Gold Districts, N. S. Wales*, 1852, pp. 17 (fcap. Sydney, 1852).

HARGRAVES (E. H.) Correspondence with the Colonial Secretary (E. Deas Thomson, Esq.) “On the Existence of Gold in New South Wales.” *Papers relating to Geol. Surveys*, 2nd December, 1851, Nos. 26-50, pp. 64-79 (fcap. Sydney, 1852).

— Report on certain indicated Localities—the Macdonald River, &c. *Ibid.* 1852, No. 10, p. 32 (fcap. Sydney, 1852).

— Report on the Gold Fields of Australia Felix. *Parl. Blue Book*, February, 1854, p. 17.

— Australia and its Gold Fields, &c. pp. xvi and 240 (8vo. London, 1855) (with outline Map of Australia showing position of Gold Fields)—see also Davison (S.).

— Report, Journal and Notes during an examination of South Australia for the purpose of the Discovery of a workable Gold Field, &c. No. 96, pp. 21 (fcap. Adelaide, 1864).

— On the non-Auriferous Character of the Rocks of West Australia. *Proc. R. Geogr. Soc.* 1864, viii, pp. 32-34.

- HARRISON (T.) Geological Notes on the Country near Melbourne, *Geologist*, 1864, vii, p. 27.
- Cape Schanck, Victoria, its Basalts and Caves. *Ibid.* 1864, vii, p. 174.
- On the Eocene Beds of Schnapper Point, Victoria. *Ibid.* 1864, vii, p. 220.
- Notes on the Geology of Hobart Town. *Trans. R. Soc. Vict.* 1865, vi, p. 181; *Geol. Mag.* ii, p. 491.
- On the Wealden Formation of Europe, as illustrated by the Physical Features of Port Phillip Bay. *Trans. R. Soc. Vic.* 1865, vi, p. 159.
- Victoria as a field for Geologists. *Ibid.* 1866, vii, p. 15.
- The Probable Astronomical Causes of the Contortions in Palæozoic Strata, and the prevailing Meridional Strike of the Older Rocks in Victoria. *Ibid.* 1866, vii, p. 54.
- Notes on a Geological Trip over the Coal Basin of New South Wales. *Ibid.* 1868, viii, p. 1.
- Notes on the various Theories as to the Origin of Species. *Ibid.* 1868, ix, p. 85.
- HARTLEY, Bowenfells, and Wallerawang—Geological Map of—
see Wilkinson (C. S.).
- HATCHETT (C.) An Analysis of the Earthy Substance from New South Wales, called Sydneia or Terra Australis. *Phil. Trans.* 1798, lxxxviii, pp. 110-129.
- HAUER (F. von) Das neuuentdeckte Gold Vorkommen in Australien. *Jahrb. K. K. Geologische Reichsanstalt, Wien*, 1852, iii, pp. 148-152.
- HAUGHTON (Rev. S.) Manual of Geology, pp. xii and 360 (8vo. London, 1865) (Fossil Marsupials, pp. 327-334).
- HAUSHOFER (Dr. K.) Mineralogische Notizen. *Jour. für Prakt. Chemie.* 1869, cvii, pp. 328-331 (Cranbourne Meteorite, p. 330).
- The Meteorite found near Cranbourne, Australia. *Chem. News*, 1870, xxi, p. 12.

HAYTER (H. H.) The Victorian Year-Book, for the year 1874, pp. vi and 248 (8vo. Melbourne, 1875) (Notes on Discovery of Gold in Australia).

— Notes on the Colony of Victoria: Historical, Geographical, Meteorological, and Statistical (Victorian Year-Book), 2nd ed. &c. pp. 214 (8vo. Melbourne, 1876), with map (Gold and Gold Fields, pp. 28, 436, &c.).

— (W. H.) Appendix to Key to Fortune in New Lands. I, The Colony of Victoria, pp. 1-54 (Mineral Products, p. 40) —*see also* Knight (W. H.).

HEATON (J. H.) Australian Dictionary of Dates and Men of the Time: containing the History of Australasia from 1542 to date, pp. 317 (8vo. London, 1879).

HECTOR (Dr. J.) On the Belemnites found in New Zealand. *Trans. New Zealand Inst.* 1878, x, pp. 484-489, pls. 22 and 23 (*B. Australis*, p. 487).

— On the relative ages of the Australian, Tasmanian, and New Zealand Coal Fields. *Trans. (Proceedings) N. Zealand Inst.* 1878, x, pp. 532-533.

— On the Geological Formations of New Zealand as compared with those of Australia. *Jour. R. Soc. N. S. Wales*, 1880, xiii, pp. 65-80.

HEDLEY (Dr.) Coal-Boring Section—*see* Selwyn (A. R. C.), 1863, Report, No. 36.

HELPMAN (Lieut.) Report on an Expedition to examine Coal discovered on the Irwin River, Western Australia, in 1846. *Jour. R. Geogr. Soc.* 1848, xviii, pp. 38-44, with map.

HENDERSON (Capt.) Excursions and Adventures in New South Wales, &c. together with a prefatory chapter on the Gold Fields, comprising all the Information received up to the Autumn of 1854, &c. 2nd edit. 2 vols. (8vo. London, 1854) (Gold Fields, i, pp. i-xxxi; Mt. Wingan, i, p. 171; Geological Remarks, ii, pp. 90-95).

HERAPATH (W.) Copy of Analysis of "White Coal or Bituminous Sand, from Australia." *Trans. of N. England Inst. Mining Engineers*, 1856, iv, p. 191.

HIGGS (S., jun.) Some Remarks on the Mining District of Yorke's Peninsula, South Australia. *Trans. R. Geol. Soc. Cornwall*, 1875, ix, pt. 1, pp. 122-131.

HILLIARD (W. E.) Report on the Calliope and Boyne Gold Fields, Queensland, for 1867, pp. 1 (fcap. Brisbane, 1868).

HILLS—Height above the Level of the Sea of some of the Higher Parts of Victoria. *Smyth's Progress Report, Geol. Survey, Vict.* No. 2, 1875, pp. 47-51.

HOBSON (Dr. E. C.) On some Fossil Bones discovered at Mount Macedon. *Tas. Jour. Nat. Sc.* 1843, ii, p. 208 (plate).

— On the Fossil Bones at Mount Macedon. *Ibid.* 1845, ii, No. 9, p. 311.

— On the Fossil Bones from Mount Macedon, Port Phillip. *Ibid.* 1845, ii, No. 10, pp. 344-347 (plate).

— On the Jaw of *Diprotodon Australis*, and its dental formula. *Ibid.* 1849, iii, pp. 387-388.

HOBSON'S BAY—Silting-up of Hobson's Bay, Victoria. Report of the Royal Commission appointed by His Excellency the Governor to enquire into and report upon the alleged Silting-up of Hobson's Bay since the dredging operations, &c. No. 13, pp. 74 (fcap. Melbourne) (with the Proceedings of the Commission).

HOCHSTETTER (F. von) Geologische Aufnahmen in Victoria, Australien. *Jahrb. K. K. Geologische Reichsanstalt, Wien*, 1860, xi, pp. 24-26.

— Ueber *Diprotodon Australis* (Owen), und *Nototherium Mitchellii* (Owen). *Sitz. K. K. Akad. Wissensch. Wien*, xxxv, p. 349.

— Fossile Beutelthiere aus Australien. *Verhandl. K. K. Geol. Reichsanstalt, Wien*, xiv, pp. 36-38.

HÖCHSTETTER (F. von) Notizen über einige fossile Thierreste und deren Lagerstätten in Neu Holland. *Sitz. K. K. Akad. Wissensch. Wien*, 1859, xxxv, pp. 349-358.

— Schreiben des Herrn H. Ulrich aus Australien. *Jahrb. K. K. Geologische Reichsanstalt, Wien*, 1861-62, xii, pp. 23-28.

— Knochenreste und Gypsabgüsse solcher, aus Australien und Neu-Seeland. *Ibid.* 1864, xiv, pp. 36-37.

HODGKINSON (C.) Australia, from Port Macquarie to Moreton Bay; with descriptions of the Natives, their Manners and Customs; the Geology, Natural Productions, Fertility and Resources of that Region; first Explored and Surveyed by order of the Colonial Government, pp. 243 (8vo. London, 1845).

— Remarks on the favorable Geological and Chemical Nature of the principal Rocks and Soils of Victoria, &c. *Trans. Phil. Soc. Vict.* 1855, i, pp. 260-265.

— Observations on the Geology and Soil of the Country adjacent to the Upper Murray, &c. *Trans. Phil. Inst. Vict.* 1857, i, pp. 37-50.

— with Smyth (R. B.) and Couchman (T.) Coal Fields, Western Port. Report of the Board. Presented to both Houses of Parliament by His Excellency's command, No. 19, pp. 32 (with maps and plans) (fcap. Melbourne, 1872).

— Smyth (R. B.) and Couchman (T.) Report on the Coal Field of Loutit Bay. *Smyth's Progress Report, No. 1, Geol. Survey, Vict.* 1874, pp. 91-98.

— (W. O.) Report on the Hodgkinson Gold Field. *The Queenslander*, 1877, July 28th.

HOMBRON (—) Aperçu sur la Côte Nord de l'Australie, et sur la Côte Sud de la Nouvelle Guinée; description de leur habitants. *Comptes Rendus*, 1845, xx, pp. 1568-1573.

HOOD (T. H. Cockburn) New Zealand a Post Glacial Centre of Creation. *Trans. New Zealand Inst.* 1878, x, pp. 3-24.

HOOKER (J. D.) On the Examination of some Fossil Wood from Macquarie Plains, Tasmania. *Tas. Jour. Nat. Science*, i, pp. 24-26.

HOPKINS (Evan) On the Geology of the Gold-bearing Rocks of the World, and the Gold Fields of Victoria in particular (8vo. Melbourne, 1853).

——— On the Coal Formation of Victoria. *Mining Jour.* 1854, xxiv, pp. 370, 426.

——— The Gold Fields of Victoria. *Ibid.* 1854, xxiv, p. 113.

——— On the Geological Formation of the Gold-bearing Rocks of Victoria. *Quart. Jour. Geol. Soc.* 1854, x, p. 324.

——— On the Gold-bearing districts of the World. *Brit. Assoc. Report for 1855*, pt. 2, p. 83 (1856).

——— The Gold Fields of the Colony of Victoria, No. 1. *Mining Jour.* 1857, xxvii, p. 120; No. 2, *Ibid.* p. 163.

——— Gold Quartz Mining in Australia—Increased Poverty in Depth. *Ibid.* 1861, xxx, p. 539.

——— Gold Mining in Victoria, &c. *Ibid.* pp. 171, 241.

——— Sir Roderick Murchison and the Rev. Dr. Cumming. Fiery Globe and the Australian Gold Fields. *Ibid.* 1861, xxxi, p. 731.

——— (W.) Anniversary Presidential Address to the Geological Society. *Quart. Jour. Geol. Soc.* 1852, viii (Geology of Australia, p. lv).

HOPKINSON (J.) and Lapworth (C.) Descriptions of the Graptolites of the Arenig and Llandeilo Rocks of St. David's. *Ibid.* 1875, xxxi, pp. 631-72, t. 33-37 (Refs. to Australian Graptolites).

HORNE (R. H.) Australian Facts and Prospects (8vo. London, 1859).

HOSKEN (Lieut. H.) Remarks about the New Hebrides Group. *Geol. Mag.* 1876, Dec. 2, iii, p. 82.

HOTSON (J.) Report to the Directors of the Victoria Coal Mining Company on the Cape Patterson Coal Fields. *Appendix A 1, Progress Report, Select Committee on Cape Patterson Coal Fields*, 1864-65, pp. 49-51.

— Second Report to the Directors of the Victoria Coal Company, on the Cape Patterson Coal Fields. *Appendix A 2, Progress Report, Select Committee on Cape Patterson Coal Fields*, 1864-65, pp. 51-54.

HOWITT (A. W.) On the Gold Fields of Victoria, between the Snowy River and the boundary of New South Wales. *Smyth's Gold Fields and Min. Districts*, Vict. 1869, pp. 113-125.

— Notes on the Geology of part of the Mitchell River Division of the Gippsland Mining District. *Smyth's Progress Report*, No. 2, *Geol. Survey*, Vict. 1875, pp. 59-73.

— Notes on the Geology of the Ovens District, with Remarks on the Deep Leads. *Ibid.* 1875, pp. 74-82 (with Sketch Section from Wahgunyah to Mt. Stanley, near Beechworth. Scale : Hor. 180 chains to 1 inch, Vert. 2000 ft. to 1 inch).

— Notes on the Microscopic Examination of Igneous Rock Specimens from South-western Gippsland. *Smyth's Progress Report*, No. 3, *Geol. Survey*, Vict. 1876, pp. 175-177.

— Notes on the Devonian Rocks of North Gippsland. *Ibid.* 1876, pp. 181-249, with the following Map and Sections:—

(a) Geological Sketch Map of Mt. Tambo and part of Bindi. Scale : 80 chains to 1 inch. (b) Sketch Sections across ditto. Scale : Hor. 50 chains to 1 inch, Vert. 2000 ft. to 1 inch. (c) Sketch Section from Bairnsdale to Albury, N. S. Wales. Scale : Hor. 8 miles to 1 inch, Vert. 8000 ft. to 1 inch. (d) Sketch Section from Bairnsdale to Snowy River. Scale : Hor. 4 miles to 1 inch, Vert. 4000 ft. to 1 inch. (e) Sketch Section across the Wombargo Mountain from the Limestone River to the Snowy River. Scale : Hor. 1 inch to 4 miles, Vert. 1 inch to 4000 ft.

— Notes on the Geological Structure of North Gippsland. *Couchman's Progress Report*, for 1876, No. 4, *Geol. Survey*, Vict. 1877, pp. 75-117, pl. 1 (sections and views).

- HOWITT (A. W.) Notes on the Geology of Part of the Mitchell River Division of the Mining District of Gippsland. *Couchman's Progress Report, for 1876*, No. 4, *Geol. Survey, Vict. 1877*, pp. 118-126 (sections).
- Examination of Rock Specimens collected by R. A. F. Murray and A. W. Howitt, at the Bogong and Dargo High Plains. *Ibid. No. 5, 1878*, pp. 111-117.
- Notes on the Devonian Rocks of North Gippsland. *Ibid. 1878*, pp. 117-144 (sections, views, and plate of rock sections).
- Remarks on Rock samples collected by Mr. R. A. F. Murray, from the Avon River, Mount Wellington, &c. *Ibid. 1878*, pp. 144-147.
- Notes on the Physical Geography and Geology of North Gippsland, Victoria. *Quart. Jour. Geol. Soc. 1879, xxxv, pt. 1*, pp. 1-41 (sections, &c.).
- The Diorites and Granites of Swift's Creek and their Contact Zones, with Notes on the Auriferous Deposits. *Trans. R. Soc. Vict. 1880, xvi*, pp. 11-18.
- Geological Survey Map of part of the Mitchell River Division of the Gippsland Mining District, Victoria. Scale: 40 chains to 1 inch. With two horizontal sections. Scale: 40 chains to 1 inch, horizontal; 1000 feet to 1 inch vertical.
- (W.) Land, Labour, and Gold, &c. 2 vols. (8vo. London, 1855) (The History of the Discovery of Gold, ii, pp. 253-260).
- The History of Discovery in Australia, Tasmania, and New Zealand, from the earliest date to the present, 2 vols. (8vo. London, 1865) (Geological notes scattered through).
- HOWORTH (H. H.) Recent changes in the Southern Circumpolar Region. *Jour. R. Geogr. Soc. 1874, xliv*, pp. 252-262.
- HOVELL (W. H.) and HUME (H.) Journey of Discovery to Port Phillip, New South Wales, in 1824 and 1825, pp. 97 (8vo. Sydney, 1837) (Geological items scattered through; soil, &c.).

HUGHES (W.) The Australian Colonies: their Origin and Present condition, pp. 307 (8vo. London, 1852) (Minerals of S. Australia, p. 205. Van Dieman's Land, p. 230; Gold Fields, p. 255).

HULL (Prof. E.) The Coal Fields of Great Britain, &c. (8vo. London, 1861) (The Victorian Coal Beds, p. 153)—2nd edition, 1861 (Australian Coal Fields, pp. 202-204)—3rd edition, 1873 (ditto, pp. 366-387)—4th edition, 1881 (ditto, pp. 418-432).

— On the New South Wales Coal Field. *Proc. Lit. and Phil. Soc. Manchester*, 1864, iii, pp. 38-39.

— A Treatise on the Building and Ornamental Stones of Great Britain and Foreign Countries, pp. 333 (8vo. London, 1872) (Australian Malachite, p. 189).

— (H. M.) The Experience of Forty Years in Tasmania (12mo. London, 1859) (Coal, p. 29; Gold, p. 47).

HUME (W. C.) Report on the Queensland Tin Fields, pp. 31 (8vo.).

HUNT (J.) Diamond Mining in New South Wales. *Mining Jour.* 1870, xl, p. 93.

— Mount Bischoff Tin Mines, Tasmania. *Ibid.* 1874, xliv, p. 207.

— On Mining in Tasmania. *Ibid.* 1875, xlv, p. 539.

— (R.) The History and Statistics of Gold. *Lecture 6, Lectures on Gold*, 2nd edition, 1853, pp. 167-207.

HUTTON (Capt. F. W., now Prof.) Did the Cold of the Glacial Epoch extend over the Southern Hemisphere? *Geol. Mag.* 1875, Dec. 2, ii, pp. 581-83.

— Report on the Cargo Gold Field. *Mines and Mineral Statistics, N. S. Wales*, for 1874, pp. 41-45.

HUXLEY (Prof. T. H.) On some Amphibian and Reptilian Remains from South Africa and Australia. *Quart. Jour. Geol. Soc.* 1859, xv, pp. 642-649; *Geologist*, ii, p. 207.

HUXLEY (Prof. T. H.) On the Premolar Teeth of *Diprotodon*, and on a New Species of that Genus. *Quart. Jour. Geol. Soc.* 1862, xviii, p. 422; *Geologist*, v, p. 310.

— On the Formation of Coal. *Contemp. Review*, 1870, xv, pp. 618-629 (Australian "White Coal," p. 625); *Critiques and Addresses*, 1873, No. 5 (8vo. London, 1873) (Australian "White Coal," p. 103).

HYDRAULIC Mining—*see* Wright (P.).

INSECTS, Fossil—*see* Moore (C.).

INSPECTORS of Mines, Reports of—*see* Couchman (T.); Slee (W. H. J.).

INUNDATION—Colliery Inundation in New South Wales. *Coll. Guardian*, 1864, viii, p. 174.

IRON—Our Iron in Australasia. *Mining Jour.* 1879, xlix, p. 751.

— and Iron Mines—*see* Bonwick (J.); Daintree (R.); English (A. G.); Foord (G.); Keene (W.); Liversidge (Prof. A.); Percy (Dr. J.); Rothery (F. J.); Stevens (T.); Thomas (J. H.); White (T. J.).

— Ore—*see* Stephens (T.); White (T. J.).

— Pyrites—*see* Latta (J.).

JACK (R. L.) Preliminary Report relating to the Geological Features of part of the Coast Range between Dalrymple and Charters Towers Roads, N. Queensland, pp. 3 (fcap. Brisbane, 1879).

— Preliminary Report relating to the Bowen River Coal Fields (fcap. Brisbane, 1879).

— Preliminary Reports of the Geological Survey of North Queensland, No. 3. On the Progress of the Search for Coal in the Cook District, 19th June, 1879 (fcap. Brisbane, 1879).

JACK (R. L.) Preliminary Reports of the Geological Survey of North Queensland, No. 4, Second Report on the Progress of the Search for Coal in the Cook District, 19th August, 1879 (fcap. Brisbane, 1879).

— Report to the Honbl. the Minister for Mines on Normandy and Marengo Gold Fields, near Bowen, with two Maps (fcap. Brisbane, 1879).

— Report on the Geology and Mineral Resources of the District between Charters Towers Gold Fields and the Coast, N. Queensland, pp. 28 (fcap. Brisbane, 1879), containing—
 (a) Geological Sketch Map of part of the Charters Towers Gold Field. Scale : 40 chains to 1 inch. (b.) Geological Sketch Map of the District between Charters Towers Gold Field and the Coast. Scale : 2 miles to 1 inch.

— Report to the Honorable the Minister for Mines on the Bowen River Coal Field, with a Geological Sketch Map, pp. 44 (fcap. Brisbane, 1879), containing a Sketch Map of the Bowen River Coal Field. Scale : 5 miles to the inch.

JAMESON (Prof.) On the Fossil Bones found in the Bone Caves and Bone Breccias of New Holland. *Edinb. N. Phil. Jour.* 1831, x, 393-397; *Jahr. für Mineralogie*, 1832, pp. 113 and 248.

JANNETTAZ (É.) Sur les roches de la Nouvelle Calédonie. *Bull. Soc. Géol. de France*, 2e ser. xxiv, pp. 451-453.

— Note sur des Minerais de Cuivre de la Nouvelle Calédonie. *Ibid.* 1875, 3 sér. iii, pp. 54-55.

JARDINE (J.) A Description of the Neighbourhood of Somerset, Cape York, Queensland. *Jour. R. Geogr. Soc.* 1866, xxxvi, p. 76.

— Report on Gold Fields in the Rockhampton District, Queensland, pp. 3 (fcap. Brisbane, 1867).

— Annual Report on the Rockhampton Gold Fields for the year 1867, pp. 2 (fcap. Brisbane, 1868).

— Report on the Gold Fields, Rockhampton District, Queensland, pp. 3 (fcap. Brisbane, 1869).

- JEFFREYS (Lieut. C.) Van Dieman's Land. Geographical and Descriptive Delineations of the Island of Van Dieman's Land, pp. vi and 168 (8vo. London, 1820) (Ores, &c. p. 113).
- JENKINS (C.) On the Geology of Yass Plains; First Paper. *Proc. Linn. Soc. N. S. Wales*, 1878, iii, pt. 1, pp. 21-32; Second Paper, *Ibid.* 1879, iii, pt. 3, pp. 216-221, t. 17; Third Paper, *Ibid.* 1879, iv, pt. 4, pp. 404-408.
- (H. M.) On the occurrence of a Tertiary Species of *Trigonia* in Australia. *Quart. Jour. Science*, 1865, ii, p. 362.
- On the occurrence of a Recent Species of *Trigonia* (*T. Lamarkii*), in Tertiary Deposits in Australia. *Geol. Mag.* 1866, iii, p. 201.
- On the Tertiary Deposits in Victoria. *Coll. Guardian*, 1868, xvi, p. 246; *Geol. Mag.* 1869, v, p. 566; *Brit. Assoc. Report* for 1868, pt. 2, p. 70 (title only).
- JEVONS (W. S.) The Australian Gold Fields. *Mem. Manchester Lit. Phil Soc.* 1862, i, pp. 115-130.
- JOHNSON (—) Report on the Bathurst, Tambaroora, and Turon Mining District. *Mines and Mineral Statistics, N. S. Wales*, for 1874, pp. 27-28.
- JOHNSTON (R. M.) Regarding the Composition and Extent of certain Tertiary Beds in and around Launceston, Tas. *Papers and Proc. R. Soc. Tas.* for 1873 (August), pp. 34-48 (section and plates).
- The Launceston Tertiary Basin; Second Paper. *Ibid. for 1874* (August), pp. 29 and 53-62 (plate).
- Further Notes on the Tertiary Marine Beds at Table Cape, Tasmania. *Ibid. for 1876*, pp. 79-90 f. (1877); *Geol. Mag.* 1877, Dec. 2, iv, p. 417.
- On the Echinodermata from ditto. *Papers and Proc. R. Soc. Tas.* for 1876, p. 116.
- Tasmanite or Mersey "Yellow Coal," pp. 8 (Hobart Town, 1877, 8vo.).

- JOHNSTON (R. M.) Notes on certain Tertiary and Post Tertiary Deposits, on Flinders, Barren, Badger, and other Islands in Bass' Straits. *Papers and Proc. R. Soc. Tas. for 1878* (1879), pp. 41-50 (with sections).
- Note on the Discovery of *Spondylostrobus Smythii* (von Mueller), and other Fossil Fruits in the Deep Lead Drift at Brandy Creek Gold Field. *Ibid. for 1879* (1880), pp. 25-26.
- Third Contribution to the Natural History of the Tertiary Marine Beds of Table Cape, with a Description of 30 New Species of Mollusca. *Ibid. for 1879* (1880), pp. 29-41.
- Notes on the Distribution and Variability of Tasmanian Land Shells. *Ibid. for 1879* (1880), pp. 44-53.
- Notes on the Relations of the Yellow Limestone (*Travertin*), of Geilston Bay, with other Fluviatile and Lacustrine Deposits in Tasmania and Australia, together with Descriptions of two New Fossil Helices. *Ibid. for 1879* (1880), pp. 81-90.

JOUBERT (J.) Map and Information for Emigrants to Sydney, New South Wales, Australia, compiled by order of the Committee of the Agricultural Society of New South Wales, &c. with letterpress, 1873 (Shows the areas of the Gold and Coal Fields).

JUKES (Prof. J. B.) A few Remarks on the Nomenclature and Classification of Rock Formations in New Countries. *Tas. Jour. Nat. Science*, ii, pp. 1-12.

- Sketch of the Geological Structure of Australia. *Brit. Assoc. Report for 1846*, pt. 2, pp. 68-69; *Froriep. Notizen*, iii, col. 229-231; *Tas. Jour. Nat. Sc.* 1846, iii, No. 3, pp. 220-223.
- Notes on the Palæozoic Formations of New South Wales and Van Dieman's Land. *Quart. Jour. Geol. Soc.* 1847, iii, pp. 241-249.
- Narrative of the Surveying Voyage of H.M.S. "Fly" in Torres Straits, New Guinea, and other Islands of the Eastern Archipelago, during the years 1842-1846, 2 vols. (8vo. London, 1847).

- JUKES (Prof. J. B.) On the Geology of the Coasts of Australia.
Quart. Jour. Geol. Soc. 1848, iv, p. 142; *Edinb. N. Phil. Jour.* 1848, xlvi, pp. 187 and 188.
- Sketch of the Physical Structure of Australia, so far as it is at present known (8vo. London, 1850).
- The Geology of Australia, with Special Reference to the Gold Regions. *Lectures on Gold*, 2nd ed. 1853, pp. 2-37.
- A School Manual of Geology (8vo. Edinburgh, 1862), pp. 131, 132, 364, 394, 399, 408, 434, 533, 593, 600, 697.
- Notes on Parts of South Devon and Cornwall, with Remarks on the true Relations of the Old Red Sandstone to the Devonian Formation. *Jour. Geol. Soc. Ireland*, 1868, ii, pt. 1, pp. 67-107 (Reference to Australian Brachiopoda, p. 100).
- and Geikie (A.) The Student's Manual of Geology, 3rd edition, pp. 778 (8vo. Edinburgh, 1872) (Australia, pp. 304, 419, 603, and 649, &c.).
- KANGAROOS, Extinct—*see* Clarke (Rev. W. B.) ; Garrod (H. A.) ; Owen (Prof. R.).
- KAY (W. P.) On Grey Granite from Goose Island, Bass's Straits. *Proc. R. Soc. V. D. Land*, 1852, ii, pt. i, p. 148.
- KAYSER (E. A.) Geological and Mining Report on the Etheridge Gold Field, N. Queensland. *The Queenslander*, 1875, n. ser. x, No. 11, p. 24.
- Report on the Country traversed between the Gilbert River and Taldora, Queensland, pp. 7 (fcap. Brisbane, 1876); also *The Queenslander*, 1876, n. ser. xii (August 19th), p. 26.
- KEENE (W.) On the Newcastle Coal Field. *Cat. Nat. and Indust. Products, N. S. Wales*, 1854, pp. 57 and 58 (4to. Sydney, 1854).
- Notes on the Coal, Iron and Copper of New South Wales. *Cat. Nat. and Indust. Products exhibited in the Australian Museum. Paris Exhib. Comm.* pp. 57-60 (4to. Sydney, 1854).

KEENE (W.) On Coal in the Valley of the Fitzroy Iron Mines.
Mining Jour. 1854, xxiv, p. 21.

- On the Newcastle Coal Field. *British Cat. Exposition Universelle, Paris*, 1855, pp. 109-110 (large 8vo. London, 1855).
- Coal and Collieries of New South Wales. The Examiner of Coal Fields to the Honorable the Commissioners of New South Wales, for the International Exhibition of 1862, pp. 4 (fcap. Newcastle, N. S. W., 1861).
- The Coal Fields of New South Wales. *London International Exhibition of 1862. Cat. Nat. and Industrial Products of N. S. Wales*, pp. 48-50 (8vo. London, 1862)—*see Exhibitions, International, 1862 (N. S. Wales)*.
- Description of a Collection of Rocks, Fossils, and Minerals from New South Wales. *Ibid.* pp. 58-60 (8vo. London, 1862).
- Our Coal Fields. *Waugh's Austr. Almanac for the year 1863*, pp. 52-57.
- On the Coal Measures of New South Wales, with Spirifer, Glossopteris, and Lepidodendron. *Geol. Mag.* 1864, i, p. 233.
- On the Coal Measures of New South Wales, with Spirifer, Glossopteris, and Lepidodendron. *Quart. Jour. Geol. Soc.* 1865, xxi, p. 137; *Phil. Mag.* 4th ser. xxix, p. 239; *Brit. Assoc. Report for 1864*, pt. 2, p. 58.
- On Petroleum Coal Seams. *Sydney Morning Herald*, 1865, lii, p. 5.
- On the Examination of Brown Cannel, or Petroleum Coal Seams at Colley Creek, Liverpool Plains, New South Wales. *Quart. Jour. Geol. Soc.* 1866, xxii, p. 435.
- On the New South Wales Coal Fields. *Cat. Nat. and Indus. Products N. S. Wales, Paris Universelle Exposition*, pp. 81-89 (8vo. Sydney, 1867).

- KEENE (W.) The Coal Fields of New South Wales. *Geol. Mag.* 1870, vii, p. 587.
- New South Wales Coal Fields, pp. 9 (8vo. Sydney, 1871).
- KELLY (W.) Life in Victoria; or, Victoria in 1853, and Victoria in 1858 showing the march of improvement made by the Colony within those periods in Town and Country, Cities and Diggings (8vo. London, 1859).
- KENDALL (W.) Mineralogy at the Paris Exhibition. *Trans. Barrow Field Club*, 1878-9, iii, pp. 94-104 (Australian Colonies, p. 98).
- KENT (J.) On the Physical Geography of Australia. *Proc. R. Geogr. Soc.* 1863, vii, p. 42.
- KENWORTHY (Dr. J. R.) Details of Analysis of two samples of Gold from Mount Alexander (Vict.), and Fingal (Tas.). *Proc. R. Soc. V. D. Land*, 1853, ii, pt. 2, pp. 313-314, and p. 325.
- On a second Analysis of Fingal Gold. *Ibid.* 1853, ii, pt. 2, p. 325.
- KING (H. E.) Report on the Mary River Gold Fields, Queensland, for 1867, pp. 2 (fcap. Brisbane, 1868).
- (J.) Observations on the Climate and Geology of New South Wales. *Edinb. Jour. Sc.* 1828, ix, No. 17, pp. 117-123; *Froriep. Notizen.* xxi, col. 341-345.
- (Capt. P. P., R.N.) On the Maritime Geography of Australia. *Field's Geograph. Mem. on N. S. Wales, &c.* 1825, 8vo. pp. 269-296, Geological Notes, p. 287 (A paper read on the 2nd Oct. 1822, before the Philosophical Society of Australia, and only published as above).
- Narrative of a Survey of the Intertropical and Western Coasts of Australia performed between the years 1818 and 1822, &c. (London, 2 vols. 8vo. 1826).

KITTO (R. L. M.) *The Gold Fields of Victoria ; with Statistics, gathered from the various Departments of the Victorian Government, and other sources ; showing an immense opening for the safe Investment of Capital in the Australian Gold Mines*, pp. iv and 64 (8vo. London, 1867).

— *The Gold Fields of Victoria. Mining Jour.* 1867, xxxvii, p. 582.

KJERULF (Th.) and Brögger (W. C.) *Zinnsteinvorkommniss aus New South Wales. N. Jahrbuch*, 1879, p. 566.

KNIGHT (J. G.) *The Building Materials of South Australia. Harcus' South Australia, &c.* 1876, pp. 182 (8vo. London, 1876).

— (W. H.) Appendix to *Key to Fortune in New Lands*, ii, *The Colony of Western Australia*, pp. 55-60 (Mineral Products, p. 57)—*see also* Hayter (W. H.).

KONINCK (Prof. L. G. de) *Notice sur quelques fossils du Spitzberg. Bull. Acad. R. de Belgique*, 1846, xiii, pt. 1, p. 592 (*Australian Palæozoic Fauna*, p. 593).

— *Monographie du Genre Productus. Mem. Soc. R. des Sciences de Liège*, 1846, iv, pp. 71-278, pls. 15 (*Productus undatus*, Defr. p. 156, t. 5, f. 3; *P. semireticulatus*, Martin, p. 183, t. 8, f. 1, t. 9, f. 1, t. 10, f. 1; *P. Flemingii*, Sow. p. 196, t. 10, fgs. 2 and 3, h; *P. brachythærus*, Morris, p. 241, t. 16, f. 1; *P. Murchisonianus*, de Koninck, p. 245, t. 16, f. 3).

— *Monographie des Genres Productus et Chonetes*, pp. xvii and 246, pls. 20 (4to. Liège, 1847) (*P. undatus*, Defr. p. 59; *P. semireticulatus*, Martin, p. 83; *P. longispinus*, Sow. p. 95; *P. subquadratus*, Morris, p. 100; *P. Murchisonianus*, de Koninck, p. 140; *P. brachythærus*, Morris, p. 102; *Chonetes variolata*, p. 206).

— *Mémoires de Paléontologie* (8vo. Bruxelles, 1857-71) (*Catalogue of Fossil Corals*).

— *Palaeozoische Fossilien aus Australien. Verhandl. K. K. Geologische Reichsanstalt, Wien.* 1874, p. 31.

KONINCK (Prof. L. G. de) Recherches sur les Fossiles paléozoïques de la Nouvelle-Galles du Sud (Australie), pts. 1 and 2, pp. 140, 8vo., atlas, 4 plates, 4to. 1876 ; pt. 3, pp. 141-373, 8vo., atlas, 20 plates, 4to. 1877 (Bruxelles, 1876-77).

KRAUSÉ (F. M.) Report on the Eastern District of Victoria, between Western Port Bay and the Tarwin River, occupied by the known coal-bearing rocks of Victoria. Appendix A. *Report of the Board, Western Port Coal Fields*, pp. 21-25 (fcap. Melbourne, 1872).

- Report on the Geological and Physical Features of the Cape Otway District. *Smyth's Progress Report*, No. 1, *Geol. Survey, Vict.* 1874. App. A, pp. 99-109 (with Plan and Sections, Nos. 2-20 of the Coast around Point Castries and Airey's Inlet).
- Report on the Sandstones of the Grampian Range, Victoria. *Ibid.* No. 1, 1874, pp. 125-130 (with sketch Plan of site of the Gold Workings on the Glenelg, long. $142^{\circ} 14'$, lat. $37^{\circ} 08' 30''$. Scale : 8 chains to the inch).
- Geological Survey Map of the Cape Otway District, with a sheet of 23 sections. Scale : 100 chains to 1 inch (Melbourne, 1874).
- Geological Map of the Country South and West of Ararat. Scale : 40 chains to 1 inch (Melbourne, 1875).
- Geological Map of the Ararat Gold Field. Scale : 40 chains to 1 inch. With two horizontal sections—scale : 400 ft. to one inch *vertical*, 40 chains to 1 inch *horizontal* (Melbourne, 1875).
- Notes on the Geological Survey of Ararat, Victoria. *Smyth's Progress Report*, No. 2, *Geol. Survey Vict.* 1875, pp. 93-99.
- Report on the Geological Survey of the Ararat Gold Field. *Ibid.* No. 3, 1876, pp. 120-134.
- Notes on the Geological Survey of Creswick. *Couchman's Progress Report for 1876*, No. 4, *Geol. Survey Vict.* 1877, pp. 57-68.

KRAUSÉ (F. M.) Report on the site of proposed Prospecting Operations at Chilwell, Mercer Hill, Geelong. *Couchman's Progress Report for 1876*, No. 4, *Geol. Survey, Vict.* 1877, pp. 135-137 (with Geological sketch plan, Mercer Hill, Newton and Chilwell. Scale : 10 chains to 1 inch).

- Report on Site proposed for Prospecting Operations at the Upper Yarra. *Ibid.* 1877, p. 138 (with Geological sketch Map and Sections of Country near Warburton, County of Evelyn. Scale : Hor. 80 chains to 1 inch, Vert. 80 ft. to 1 inch).
- Report on the Hope Company's Mine, Running Creek, Ovens River. *Ibid.* 1877, pp. 138-144, with—
 (a) Sketch Horizontal and Vertical Sections of Lodes and Workings, Hope Claim, Running Creek. Scale : 80 ft. to the inch. (b) Sketch Plan of part of the Hope Claim, Running Creek. Scale : 80 ft. to the inch.
- Notes on the Auriferous Leads of Middle Pliocene Age of the Creswick Gold Field. *Ibid.* No. 5, 1878, pp. 71-78.
- Notes on the Geological Survey of Daylesford. *Ibid.* 1878, pp. 87-95.
- Report on the South Extended Sutton Company's Mine, Blackwood. *Ibid.* 1878, pp. 148-152 (with Geological Plan and Section of country in the neighbourhood of the above. Scale : 10 chains to 1 inch).
- The Lal Lal Iron Ore Deposits. *Ann. Report, Ballarat School of Mines*, 1881, pp. 45-50 (plan and section).

KREFFT (G.) On the Vertebrated Animals of the Lower Murray and Darling, their habits, economy, and geographical distribution. *Trans. R. Soc. N. S. Wales*, 1862-1865, pp. 1-33 (Ref. to *Canis dingo*, pp. 2 and 3).

- On the Dentition of *Thylacoleo carnifex* (Owen). *Annals Nat. Hist.* 1866, 3rd ser. xviii, p. 148.
- The Vertebrata of Tasmania, Recent and Fossil. *Trans. R. Soc. N. S. Wales*, for year 1867, i, pp. 30-41.

- KREFFT (G.) On the Discovery of a new gigantic Fossil species of *Echidna* in Australia. *Annals Nat. Hist.* 1868, 4th ser. i, p. 113.
- Notes on the Fauna of Tasmania. *Papers and Proc. R. Soc. Tas.* 1868. *Appendix*, pp. 91-105.
- On a Restoration of the Lower Incisor of *Thylacoleo carnifex* (Owen); and on the Fossil remains of Herbivorous Marsupials in the Australian Museum, Sydney. *Quart. Jour. Geol. Soc.* 1870, xxvi, p. 415.
- Australian Vertebrata, Fossil and Recent. *Cat. Nat. and Industr. Products of N. S. Wales, Paris Univ. Exposition*, pp. 90-110 (8vo. Sydney, 1867); also as a separate Pamphlet, pp. 96 (8vo. Sydney, 1871).
- Fossil Remains of Mammals, Birds, and Reptiles from the Caves of Wellington Valley. *Ibid.* pp. 111-124 (8vo. Sydney, 1867).
- Über fossile Beutelthiere in dem Museum von Sydney. *Neues Jahrbuch*, 1871, p. 331.
- Review of a Cuvierian Principal in Palæontology, tested by evidence of an extinct Leonine Marsupial (*Thylacoleo carnifex*, Owen) by Prof. Owen. *Annals and Mag. Nat. Hist.* 1872, 4th ser. ix, p. 169.
- Review of Prof. Owen's Papers on the Fossil Mammals of Australia. *Sydney Mail*, 1873 (Aug. 23rd); *Verhandl. K. K. Geol. Reichsanstalt, Wien*, xxiii, p. 301.
- Catalogue of the Minerals and Rocks in the Collection of the Australian Museum, pp. 115 (8vo. Sydney, 1873).
- On the Further Discovery of Remains of a Great Extinct Wingless Bird in Australia. *Geol. Mag.* 1874 (Dec. 2), i, p. 46.
- Remarks on the Working of the Molar Teeth of the Diprotodonts. *Quart. Jour. Geol. Soc.* 1875, xxxi, pp. 317-18.

KREEFFT (G.) Remarks on Prof. Owen's Arrangement of the Fossil Kangaroos. *Annals and Mag. Nat. Hist.* 1875, 4th ser. xv, pp. 204-209; *Sydney Mail*, 1874 (Dec. 26th).

— Further discoveries of Ossiferous Caverns in New South Wales. *Geol. Mag.* 1876, Dec. 2, iii, p. 520.

KUSTEL (G.) A Treatise on Concentration of all kinds of Ores; including the Chlormation Process for Gold-bearing Sulphurets, Aseniurets, and Gold and Silver Ores generally, pp. 259, plans (8vo. San Francisco, 1868).

LAMBERT (C. H.) Report on the Peak Downs Gold Field, Queensland, for the year 1867, pp. 2 (fcap. Brisbane, 1868).

LANCELOTT (F.) Australia as it is: its Settlements, Farms, and Gold Fields, 2 vols. (8vo. London, 1852) (Information concerning the discovery and working of Gold in New South Wales, i, pp. 274-317; ii, pp. 1-45. The Gold Fields of Victoria, ii, pp. 119-143).

LANDSLIPS—*see* Wintle (S. H.).

LANG (Rev. Dr. J. D.) Additional Information illustrative of the Natural History of the Australian Bone Caves and Osseous Breccia. *Edinb. N. Phil. Jour.* 1831, xxiv, p. 368; *Jahrb. für Mineralogie*, 1832, p. 112.

— Ankündigung der Entdeckung von Knochenhöhlen in Wellington Valley, 210 englischen Meilen westlich von Sydney in Neu Holland. *Ibid.* 1832, p. 111.

— An Historical and Statistical Account of New South Wales, &c. 2 vols. (8vo. London, 1834) (Geological Notes, ii, 1834, pp. 171-183); 4th edit. 2 vols. (8vo. London, 1875) (vol. ii, Geol. Notes, pp. 68, 326, 503. Map showing position of Coal and Gold Fields).

LATTA (J.) On Iron Pyrites. *Trans. R. Soc. N. S. Wales*, for year 1874, pp. 35-40).

LATTORFF (H.) On a Well Section, at about ten to eleven miles west from Lake Torrens, near Whittata. *Trans. R. Soc. S. Australia*, 1880, iii, p. 181.

- LAUBE (Dr. G. C.) Über einige Fossile Echiniden von den Murray Cliffs in Süd-Australien. *Sitz. d. Math. Natur. d. K. Akad. d. Wissensch. Wien*, 1869, lix, abth. i, p. 183 (with plate); *N. Jahrbuch*, 1870, p. 656.
- LEAD in Victoria. *Coll. Guardian*, 1866, xii, p. 333.
- see Stagg (R.); Tremenheere (S.); Wintle (S. H.).
- LEE (Dr. R.) Notes on a sample of Oil, obtained by distillation from the Mersey Shale. *Proc. R. Soc. V. D. Land*, 1855, iii, pt. 1, pp. 187-188.
- LEFROY (H. M.) Memoir and Journal of an Expedition organized by the Colonial Government of Western Australia, at the request and with the aid of the Agricultural Society of the York District of that Colony, for the purpose of exploring the Interior of the Colony eastward of that District, &c. pp. 38 (fcap. Perth, 1863), with small map.
- Narrative of an Exploring Expedition into the Interior of Western Australia. *Proc. R. Geogr. Soc.* 1864, viii, pp. 45-46.
- LIEBIUS (Dr. A.) On Osmiridium and Iridium obtained from New South Wales Gold. *Trans. Phil. Soc. N. S. Wales*, 1862-65, p. 210.
- Separating Gold from Argentic Chloride. *Trans. R. Soc. N. S. Wales, for year* 1872, pp. 67-70.
- Assaying Antimony Ore. *Ibid.* pp. 71-72.
- Remarks on Tin Ore. *Ibid.* pp. 73-74.
- LEICHHARDT (L.) Scientific Excursions in New Holland. *Lond. Jour. Bot.* 1845, iv, pp. 278-291.
- Journal of an Overland Expedition in Australia from Moreton Bay to Port Essington during the years 1844-1845 (8vo. London, 1847).
- Report of an Expedition from Moreton Bay to Port Essington, Sydney, Australia, March 26th. *Tas. Jour. Nat. Sc.* 1846, iii, pp. 18-51; *Jour. R. Geogr. Soc.* 1846, xvi, pp. 211-238.

- LEICHHARDT (L.) Lectures on the Geology, Botany, Natural History, and Capabilities of the Country between Moreton Bay and Port Essington. *Tas. Jour. Nat. Science*, iii, No. 2, pp. 81-113.
- Über die Kohlenlager von Newcastle in Neu Holland. *Zeitschrift der Deuts. Geol. Gesellsch.* 1849, i, pp. 44-52, pl. 1.
- Letters and Remarks on the Bones brought to Sydney by Mr. Turner, addressed to Prof. Owen and Rev. W. B. Clarke. *Papers relative to Geol. Surveys, N. S. Wales*, Dec. 21st, pp. 15-17 (fcap. Sydney, 1853); *Parl. Blue Book*, Dec. 1854, pp. 42-45 (folio, London, 1855).
- Journal of Dr. Leichhardt's Third Expedition, edited by the Rev. W. B. Clarke, M.A. &c. *Waugh's Austr. Almanac for the year 1860*, pp. 54-66.
- Notes on the Geology of Parts of New South Wales and Queensland, made in 1842-43. Published in Germany in 1847. Translated by G. H. F. Ulrich, Esq. (of the Geological Survey of Victoria), and edited by the Rev. W. B. Clarke, M.A., F.G.S., pt. 1, pp. 55, pt. 2, pp. 25 (8vo. Sydney, n. d. [? 1866]); *Ibid. for 1867*, pp. 29-55.
- Geologie von Australien—see Girard (Prof. H.).
- LEWIS (J. W.) South Australia. Journal of Mr. Lewis's Lake Eyre Expedition, 1874-5, No. 19, pp. 42 (fcap. [? Adelaide], 1875) (Minerals, Fossils, p. 42).
- South Australia. Report on the Lake Eyre Expedition, No. 114, pp. 3 (fcap. [? Adelaide], 1875), with map.
- (T.) The Half-yearly Report of the Inspector of Collieries for the half-year ending 31st December, 1877, on the State of the various Collieries in New South Wales, and accidents therein. *Ann. Report, Dept. of Mines, N. S. Wales, for 1877*, pp. 193-196.

LEWIS (T.) The Half-yearly Report of the Inspector of Collieries on the State of the Collieries in the various Districts in New South Wales, and accidents therein, for the half-year ending 31st Dec. 1878. *Annual Report, Dept. of Mines, N. S. Wales, for 1878*, pp. 146-148.

— The Half-yearly Report of the Inspector of Collieries on the State of the various Collieries in New South Wales, &c. *Ibid. for 1879*, pp. 210-212.

LHOTSKY (Dr. J.) Sketches of Tasman's Peninsula. Information for the People, No. 1 (8vo. [? Hobart Town], n. d.) (A Reference to Geological Map of Tasman's Peninsula).

— A Journey from Sydney to the Australian Alps, undertaken in the months of January, February, and March, 1834, &c. pp. 118 (8vo. Sydney, 1835) (Contains a large amount of Geological and other scientific information).

— Titanium in Australia. *Mining Jour.* 1861, xxx, p. 434.

— The Metal Sands of Australia. *Ibid.* 1861, xxx, p. 454.

LINDSAY (Dr. W. L.) Australian Gold Quartz in Scotland. *Trans. Geol. Soc. Glasgow*, 1879, vi, pt. 1, pp. 68-72.

LINDSTROM (Dr. G.) On the Affinities of the Anthozoa Tabulata. *Annals Nat. Hist.* 1876, xviii, pp. 1-17 (Reference to Genus *Stenopora*).

LIGAR (C. W.) On the Parallelism of the Gold-bearing Quartz-Reefs of Victoria. *Trans. Mining Inst. Vict.* 1859, i, pt. 4, pp. 24-25.

LIGNITE—see Etheridge (R., jun.) ; Milligan (Dr. J.) ; Oliphant (W.).

LINDLEY (J.) and Hutton (W.) The Fossil Flora of Great Britain, 3 vols. (8vo. London) (*Phyllotheaca Australis*, ii, p. 89).

LINDSAY (Col.) Bone Caves discovered in New Holland. *Edinb. N. Phil. Jour.* 1831, xxvi, p. 179.

- LIVERSIDGE (Prof. A.) The Dinilquin, or Barratta Meteorite. *Trans. R. Soc. N. S. Wales, for year 1872*, pp. 97-103.
- Note on a New Mineral from New Caledonia. *Jour. Chem. Soc. 1874*, 2nd ser. xii, pp. 613-15.
- Nickel Minerals from New Caledonia. *Trans. R. Soc. N. S. Wales, for year 1874*, pp. 75-80.
- On the Bingera Diamond Field, pp. 11 (8vo. Sydney, 1873)—also see *Mines and Min. Statistics, N. S. Wales, 1875*, pp. 104-116.
- Report on the discovery of Diamonds at Bald Hill, near Hill End, N. S. Wales. *Ibid. for 1874*, pp. 115-116 (? as a Pamphlet, 8vo. Sydney, 1873).
- Notes on the Bingera Diamond Field, with Notes on the Mudgee Diamond Field (abridged). *Quart. Jour. Geol. Soc. 1875*, xxxi, pp. 489-492.
- Iron Ore and Coal Deposits at Wallerawang. *Trans. R. Soc. N. S. Wales, for 1874*, pp. 81-91 (1875); *Mines and Min. Statistics, N. S. Wales, 1875*, pp. 94-103; *Mining Jour. 1875*, xlv, p. 540.
- On the Stanniferous Deposits of Mount Bischoff and Mount Ramsay, Tasmania. *Mining Jour. 1875*, xlv, p. 1095.
- The Minerals of New South Wales. *Trans. R. Soc. N. S. Wales, for 1875*, ix, pp. 153-215 (1876).
- On the Formation of Moss Gold and Silver. *Ibid. for 1876*, x, pp. 125-134; *N. Jahrbuch*, 1879, p. 622.
- On a Fossiliferous Silicious Deposit from the Richmond River, N. S. Wales. *Jour. R. Soc. N. S. Wales, for 1876*, x, pp. 237-39 (1877).
- On the so-called Meerschaum from the Richmond River, N. S. Wales. *Ibid. for 1876*, x, p. 240.
- On a Remarkable Example of Contorted Slate. *Ibid. for 1876*, x, pp. 241-242 (with 2 plates).

- LIVERSIDGE (Prof. A.) Note on a Mineral from New South Wales, presumed to be Laumonite. *Min. Mag. and Jour. Min. Soc. Gt. Brit. and Ireland*, 1876, No. 2, p. 54.
- Report upon Mineral and other Substances examined for the Mining Dept. N. S. Wales, during the year 1876. *Ann. Report, Dept. of Mines, N. S. Wales, for 1876*, pp. 181-84 (1877).
- On Examples of Pseudo-Crystallization (8vo. Sydney, 1877).
- On the occurrence of Chalk in the New Britain Group. *Geol. Mag.* 1877, Dec. 2, iv, pp. 529-534; *Jour. R. Soc. N. S. Wales, for 1877*, xi, pp. 85-91 (1878).
- Analyses of Auriferous Tailings from New South Wales. *Ann. Report, Dept. of Mines, N. S. Wales, for 1877*, pp. 14-19.
- Analyses of Samples of Coal from New South Wales. *Ibid.* 1877, pp. 24-29.
- Report on the character and value of the Copper Ores of New South Wales. *Ibid.* 1877, pp. 34-37.
- Report on the Theoretical Calorific Power of certain Samples of New South Wales Coal. *Ibid.* 1877, p. 209.
- Report upon Mineral Specimens examined for the Mining Dept. of New South Wales for the year 1877. *Ibid.* 1877, pp. 210-212.
- Table showing the results of Analysis of samples of Quartz Tailings, and other waste Gold-bearing products. *Ibid. for 1878*, pp. 12-13.
- The International Congress of Geologists, Paris, 1878. *Trans. R. Soc. N. S. Wales, for 1879*, xiii, pp. 35-42.
- Tables showing the Percentage Composition of Coals in the Northern, Western, and Southern Districts of N. S. Wales. *Ann. Report, Dept. of Mines, N. S. Wales, for 1879*, pp. 29-30.

LIVERSIDGE (Prof. A.) Legislative Assembly, New South Wales. Report upon certain Museums for Technology, Science, and Art, also upon Scientific, Professional, and Technical Instruction, &c. pp. 237 (fcap. Sydney, 1880).

- On the Composition of some New South Wales Coals, pp. 32 (8vo. Sydney, 1881).
- On the Composition of some Wood enclosed in Basalt, pp. 3 (8vo. Sydney, 1881).
- On some New South Wales Minerals, pp. 13 (8vo. Sydney, 1881).
- Analysis of Queensland soils. *Jour. Chem. Soc.* 1881, No. ccxx, pp. 61-63.

LLOYD (G. T.) Thirty-three Years in Tasmania and Victoria, being the actual experience of the Author, &c. pp. 515 (8vo. London, 1862) (Salt Lakes, p. 396 ; Volcanic phenomena, p. 400).

LOCKE (J.) Remarkable Discoveries in Central Australia, with Map, showing the Principal Routes, including Stuart's Third and Successful Attempt to reach the Northern Coast ; Third Paper, read before the Royal Dublin Society, March 16, 1863, pp. 13 (8vo. Dublin, 1863).

LODES—The Geological Indications requisite to determine the Position and Nature of Lodes. *Ann. Report, School of Mines, Ballaarat*, 1879, p. 17.

LONSDALE (W.) Description of Six Species of Corals from the Palæozoic Formation of Van Dieman's Land. *Darwin's Geological Obs. on Volc. Islands*, 1844, App. pp. 161-169.

- Description and Remarks upon the Specimens of the Australian Fossil Polyparia collected in New South Wales and Van Dieman's Land. *Strzelecki's Phys. Description of N. S. Wales and V. D. Land*, 1845, pp. 262-269, pls. 8 and 9.

LONSDALE (W.) Catalogue of 586 Specimens of Australian Rocks, now in the Collection of the Geological Society of London, with their Descriptions. Appendix to Report, by Sir T. L. Mitchell, on the Bathurst and Wellington Gold Fields. *Papers relative to Geol. Surveys*, 2nd Dec, 1851, No. 24, pp. 48-63 (fcap. Sydney, 1852); *Parl. Blue Book*, Feb. 28th, 1853, p. 420 (fcap. London, 1853)—see Mitchell (Sir T. L.).

LUCAS (The Honbl. J.)—see N. S. Wales, Mines and Mineral Statistics, 1875-77.

LUTKEN (Dr. C.) Die Begrenzung der Ganoiden. *Palaeontographica*, 1873, xxii, pt. 1, pp. 1-54.

LYNCH (J.) Plan and Sections of the Haddon Gold Field, showing the Localities where the new Vegetable Fossils were found. *Reports, Mining Surv. and Registrars, Vict.* No. 26, March 31st, 1871.

— Report on a Rush to Kangaroo Flat, near Staffordshire Reef. *Ibid.* 1875, No. 60.

LYELL (Sir C.) On Progressive Geological Development. *Proc. R. Soc. V. D. Land*, 1853, ii, pt. 2, p. 359 (From the *Literary Gazette*, No. 1824, p. 17).

— The Principles of Geology, 2 vols. (8vo. London, 1867) (i, pp. 159-163; ii, pp. 332, 352, and 592).

— The Student's Elements of Geology, pp. 135-161, &c. (8vo. London, 1871, 2nd edition, 1874).

MACARTNEY (J. N.) The Bendigo Gold Field Registry, comprising a Description of the Gold Field, History of the Opening, Progress, and present position of the Chief Reefs, &c. pp. 180, with Maps, by G. W. Hart, c.e. (8vo. Melbourne, 1871).

MACDONALD (Dr. J. D.) Notes on *Zygomaturus trilobus*, Macleay. *Quart. Jour. Geol. Soc.* 1859, xv, p. 169.

— (J. G.) Journal of J. G. Macdonald, on an Expedition from Port Denison to the Gulf of Carpentaria and back, pp. 60 (12mo. Brisbane, 1865), with Map.

MACDONNELL (Sir R. G.) Australia: What it is, and what it may be. A Lecture, illustrated by a Map (Dublin, n.d.) (Mineral Springs in the Kewson Hills, p. 15).

MACGILLIVRAY (J.) An Account of Raine's Islet on the North-east Coast of New Holland. *Zoologist*, 1846, iv, pp. 1473-1481.

— Narrative of the Voyage of H.M.S. "Rattlesnake," &c. during the years 1846-1850, to which is added an Account of Mr. E. B. Kennedy's Expedition for the Exploration of Cape York Peninsula, 2 vols. (8vo. London, 1852).

MACKAY (A.) A Visit to Sydney and the Cudgygong Diamond Mines (8vo. Melbourne, 1870).

MACKENZIE (D.) Australian Gold Fields (12mo. London, 1852).

— (Rev. D.) The Gold Digger: a Visit to the Gold Fields of Australia in February, 1852; together with much useful information for intending Emigrants, pp. xvi and 96 (8vo. London, n.d.) (with Map of the Gold Regions of Victoria and N. S. Wales).

— (J.) On a Coal Seam in New South Wales. *Geol. Mag.* 1864, i, p. 234.

— The Coal Basin of New South Wales. *Ibid.* 1865, ii, p. 235; *Quart. Jour. Science*, ii, p. 359; *Brit. Assoc. Report for* 1864, pt. 2, p. 59.

— Report (No. 1) on the Coal Fields of Victoria. Presented to both Houses of Parliament by His Excellency's command, No. 63, pp. 11, with vertical sections (fcap. Melbourne, 1873). *Coll. Guardian*, 1873, xxvi, pp. 773-75 (with a Map of the Coal Fields of Victoria).

— Report (No. 2) on the Coal Fields of Victoria. Presented to both Houses of Parliament by His Excellency's command, No. 70, pp. 8 (fcap. Melbourne, 1873).

— Sketch Map of the New South Wales Coal Field, as far as at present examined, April, 1873. Scale: about 10 miles to 1 inch, with 15 sheets of sections of Coal Seams and Bores, &c. (Sydney, 1873).

MACKENZIE (J.) Supplementary Report of the Examiner of Coal Fields. *Mines and Mineral Statistics, N. S. Wales*, 1875, pp. 207-247, with—

(a) Plan showing the position and extent of the various collieries at and near Newcastle. Scale: 4 miles to 1 inch. (b) Plan showing position and extent of the Bulli Colliery Co.'s Mine, county of Camden. (c) Plan showing position of the Osborne Wallsend and Mount Pleasant Collieries, near Wollongong. Scale: 40 chains to 1 inch. (d) Plan showing position and extent of the different collieries now at work at Lithgow Valley, county of Cork. Scale: 40 chains to 1 inch. (e) Plan of the New South Wales Coal Field. (f) Sketch section, about 30 miles in length, from Newcastle to past Booral, in the county of Gloucester, to illustrate the relative position of the Upper, Middle, and Lower Coal Measures, and some of the Fossil Flora and Fauna found in connection therewith. (g) Eleven sheets of vertical sections (one horizontal) of Strata and Coal Seams in the N., S. and Western Districts of N. S. Wales. (h) Section (horizontal), 10,000 ft. in length, taken along provings made by the Australian Agricultural Company across a portion of the L. Coal Measures, at Smith's Creek, near Stroud, county of Gloucester.

— Report from the Examiner of Coal Fields on the Condition and Prospects of the Coal Fields; together with the Reports of the Inspector of Collieries on the state of the various Coal, Petroleum Oil, Cannel Coal, and Kerosene Shale Mines in New South Wales, &c. for the year 1874, pp. 5 (fcap. Sydney, 1875).

— Report of the Examiner of Coal Fields for the Colony of N. S. Wales for the year 1876. *Ann. Report, Dept. of Mines, N. S. Wales*, for 1876, pp. 129-142 (1877).

— Report of the Examiner of Coal Fields for the Colony of New South Wales, for the year 1877. *Ibid.* 1877, pp. 166-192 (with tables of Coal Statistics, vertical sections of Coal Seams, &c.).

— Report of the Examiner of Coal Fields for the Colony of New South Wales, for the year 1878. *Ibid.* 1878, pp. 138-145 (with 53 vertical sections of Coal Seams, and Bore-holes through Coal Measure Strata—various scales).

MACKENZIE (J.) Report of the Examiner of Coal Fields for the Colony of New South Wales, for the year 1879. *Ann. Report Dept. of Mines, N. S. Wales, for 1879*, pp. 194-209 ; with—

(a) Section of Strata at Mullett Creek, Hawkesbury River. (b) Section of Strata at Botany and Coal Cliff.

MACLEAY (W. S.) Letter to the Editors of the *Sydney Morning Herald* on "The Bones brought to Sydney by Mr. Turner," Dec. 2nd, 1847. *Papers relative to Geol. Surveys, N. S. Wales*, 21st Dec., No. 2, pp. 13-15 (fcap. Sydney, 1853); *Parl. Blue Book*, Dec. 1854, pp. 40-42 (folio, London, 1855).

MACONOCHIE (Capt., R.N.) On the Physical Character and Geology of Norfolk Island. *Brit. Assoc. Report for 1844*, pt. 2, p. 57.

MAMMALIA, Fossil—*see* Falconer (H.) ; Flower (W. H.) ; Foetterle (F.) ; Krefft (G.) ; Macdonald (Dr. J. D.) ; Owen (Prof. R.) ; Scott (R. W.) ; Waterhouse (G. R.).

MANGANESE Ore—*see* Newbery (J. C.).

MANN (D. D.) The Present Picture of New South Wales ; illustrated with four large coloured views, &c. pp. vi and 99 (4to., atlas folio, London, 1811) (Coal and precious stones, p. 51).

MANNING (J.) Sydney Water Supply by Gravitation. *Trans. R. Soc. N. S. Wales, for year 1874*, pp. 41-56.

MANTELL (Dr. G. A.) The Medals of Creation ; or, First Lessons in Geology, and in the study of Organic Remains (2 vols. 8vo. London, 1844) (Fossil trees, i, p. 169 ; Extinct Marsupials, ii, p. 849 ; Bone caves, p. 855).

— The Wonders of Geology ; or, a Familiar Exposition of Geological Phenomena, 2 vols. 6th ed. (8vo. London, 1848) (Fossil Flora, ii, p. 714 ; Fauna, p. 893 ; Epochs, p. 894).

MAPS—Mineral Map and General Statistics of New South Wales. Sketch Map of N. S. Wales, showing the localities of the principal Minerals, 1876. Scale : 50 miles to 1 inch (Sydney, 1876).

MAPS—General Map of the South-eastern Portion of Australia, showing the Colony of New South Wales, as surveyed and divided by the Surveyor-General between the years 1827 and 1850, &c. Scale: about 35 miles to 1 inch (shows the position and limits of the various Gold Fields throughout N. S. Wales, and "Australia Felix") (Sydney, n.d.).

— see Aplin (C. D'O. H.) ; Daintree (R.) ; Mackenzie (J.) ; Marcou (J.) ; Murray (R. A. F.) ; Petermann (A.) ; Selwyn (A. R. C.) ; Smyth (R. B.) ; Taylor (N.) ; Ulrich (G. H. F.) ; Wilkinson (C. S.) and Young (L.).

MARCOU (J.) Notice sur les Cartes Géologiques de Victoria, et des Isles Britanniques. *Bull. Soc. Géol. de France*, 1867, 2nd ser. xxv, pp. 121-122.

— Les Hommes dans l'Australasie. *Bull. Soc. de Géographie, Paris*, 1871, 6me sér. ii, pp. 369-378.

— Explication d'une seconde édition de la Carte Géologique de la Terre, pp. 222 (folio, Zurich, &c.) (? 1875) ; with Carte géologique de la Terre, 2eme. edition. Reduction et assemblage des huit feuilles, 1857 (Géologie de l'Australie, &c. pp. 181-205).

MARGULES (H.) Reports on the Lachlan District. M'Guigan's subdivision (Gold Field). *Ann. Report, Dept. Mines, N. S. Wales*, for 1876, pp. 81-92.

— Report on Mining Operations in the Lachlan District, Baker Division, N. S. Wales. *Ibid.* for 1879, pp. 101-107.

MARSHALL (H.) Gold in South Australia. *Mining Jour.* 1863, xxxiii, p. 554.

MARSUPIALS—The Gigantic Marsupials of Australia. *American Jour. Sci.* 1866, xli, p. 258.

MARTIN (R. M.) History of the British Colonies, 5 vols. (8vo. London, 1835)—Vol. iv, Possessions in Africa and Austral-Asia, pp. 624 (Geology of N. S. Wales, Tasmania and King George's Sound, pp. 266, 419 and 472).

MARTIN (R. M.) History of Austral-Asia : comprising New South Wales, Van Dieman's Land, Swan River, South Australia, &c. *The Brit. Col. Library*, ii, pp. 371 (8vo. London, 1836) (Geology, &c. pp. 78, 265 and 329).

— The British Colonies ; their History, Extent, Condition, and Resources, 6 vols. (4to. Lond. and N. York, n.d.) (Vol. ii, Australia, Geology of Australia, N. S. Wales, Victoria, S. Australia and Swan River, pp. 397, 432, 497, 605, 677, and 733).

MARYBOROUGH—Map of the Mining District of Maryborough. Scale : half-an-inch to 1 mile (Melbourne, 1861) (Quartz Reefs, and Auriferous Leads shown).

MASTERS (J.) Assays of Ores from the Forest Diggings, Bathurst District, N. S. Wales. *Ann. Report, Dept. of Mines, N. S. Wales* for 1876, pp. 10-12.

— Assays of Metalliferous Ores from New South Wales. *Ibid. for 1877*, pp. 12-13.

MASTODON, in Australia—*see* Falconer (Dr. H.); Owen (Prof. R.).

MAUND (Dr.) On the Mineral Waters of Victoria. *Trans. Victorian Inst.* 1854, pp. 70-74.

— On the Waters of the Plenty River, Victoria. *Ibid.* 1854, pp. 136-143.

MAYBURY (C. E. B.) Gold, Copper, and Iron Mining, Bathurst District, Bathurst Division, N. S. Wales. *Ann. Report, Dept. of Mines, N. S. Wales* for 1879, pp. 71-73.

McALPINE (G. B.) On the Deep Leads at Aararat, Victoria. *Smyth's Gold Fields and Min. Districts, Vict.* 1869, pp. 223-225.

McARTHUR (J.) Bitumen in Van Dieman's Land. *Mining Jour.* 1854, xxiv, p. 699.

MCBAIN (Dr. J.) On a Skull of a Wombat from the Bone Caves of Australia, with remarks on the Marsupiala. *Proc. R. Phys. Soc. Edinb.* 1858, i, pp. 373-378; *Edinb. N. Phil. Jour.* 1858, n. s. vii, p. 308.

- McCoy (Prof. F.) On the Fossil Botany and Zoology of the Rocks associated with the Coal of Australia. *Annals Mag. Nat. Hist.* 1847, xx, pp. 145, 226, 298, plates 9-17; *American Jour. Sc.* 1848, 2nd ser. v, pp. 273-76 (abstract); *Proc. R. Soc. V. D. Land*, 1851, i, pp. 303-334, 9 plates.
- On the Plants of the New South Wales and Van Dieman's Land Coal Fields. *Brit. Assoc. Report* for 1847, pt. 2, pp. 64-65.
- Note on the Rev. W. B. Clarke's Remarks on Prof. McCoy's New *Tæniopteris*. *Trans. R. Soc. Vict.* 1860, v, pp. 215-217.
- A Commentary on a Communication by the Rev. W. B. Clarke on Prof. McCoy's New *Tæniopteris*. *Ibid.* 1861, v, pp. 96-107.
- On the Ancient and Recent Natural History of Victoria. *Intercolonial Exhibition Essays*, 1861, pp. 158-174 (8vo. Melbourne); *Sitz. Naturwissen. Gesellsch. Isis zu Dresden*, Jahrg. 1862, p. 53 (1863); *Annals Nat. Hist.* 1862, ix, pp. 137-150.
- On the Deep Gold Diggings of Australia. *Geologist*, 1863, vi, p. 36.
- Anniversary Presidential Address, delivered to the Members of the Royal Society of Victoria, at the Anniversary Meeting held on the 25th April, 1864. *Trans. R. Soc. Vict.* 1865, vi, pp. lxiii-xcix.
- On the Bones of a New Gigantic Marsupial, *Diprotodon longiceps* (McCoy). *Ibid.* 1865, vi, p. 25.
- Remarks on some Fossils from Wollumbilla. *Ibid.* 1865, vi, pp. 42-46.
- On the occurrence of *Limopsis Belcheri*, *Corbula sulcata* (Lamk.), and some other Recent Shells in Miocene Tertiary Beds, near Melbourne. *Annals Nat. Hist.* 1865, 3rd ser. xvi, p. 113.
- A Note on the Cretaceous Deposits of Australia. *Ibid.* 1865, 3rd ser. xvi, p. 333.

- McCoy (Prof. F.) On the Canine Tooth of *Thylacoleo carnifex* (Owen). *Annals Nat. Hist.* 1865, 3rd ser. xvi, p. 448 (with woodcut).
- On the Discovery of Cretaceous Fossils in Australia. *Trans. R. Soc. Vict.* 1866, vii, pp. 49-51.
- On some New Species of Fossil Volutae from the Tertiary Beds, near Melbourne. *Annals Nat. Hist.* 1866, 3rd ser. xviii, p. 375.
- On the Australian Tertiary Species of *Trigonia*. *Geol. Mag.* 1866, iii, p. 481.
- Notes sur la Zoologie et la Paléontologie de Victoria, Exposition Intercolonial (Traduit de l'Anglais par E. Lissignol) (8vo. Melbourne, 1866).
- On the occurrence of the genus *Squalodon* (*S. Wilkinsoni*, McCoy) in the Tertiary Strata of Victoria. *Geol. Mag.* 1867, iv, p. 145, t. 8, f. 1.
- On the occurrence of *Ichthyosaurus* and *Plesiosaurus* in Australia. *Annals Nat. Hist.* 1867, 3rd ser. xix, p. 355.
- On the recent Zoology and Palæontology of Victoria. *Ibid.* 1867, 3rd ser. xx, p. 175.
- Description of two New Fossil Cowries, characteristic of Tertiary Beds, near Melbourne. *Ibid.* 1867, 3rd ser. xx, p. 436.
- On the Discovery of *Enaliosauria* and other Cretaceous Fossils in Australia. *Trans. R. Soc. Vict.* 1868, viii, p. 41.
- Memoirs of the Melbourne Museum. Descriptive Catalogue of the Mining, Metallurgical, Geological, and Agricultural Models in the National Museum (8vo. Melbourne, 1869).
- On the Teeth and Fossil Eye of *Ichthyosaurus Australis*. *Trans. R. Soc. Vic.* 1869, ix, pt. 2, pp. 77-78.
- Über die Paläontologie von Victoria. *Neues Jahrbuch*, 1869, p. 115.

McCoy (Prof. F.) Geological Survey of Victoria ; Prodromus of the Palaeontology of Victoria, or Figures and Descriptions of Victorian Organic Remains. Decade i, 1874, pp. 43, pls. 1-10; Decade ii, 1875, pp. 37, pls. 11-20; Decade iii, 1876, pp. 40, pls. 21-30; Decade iv, 1876, pp. 32, pls. 31-40; Decade v, 1877, pp. 41, pls. 41-50; Decade vi, 1879, pp. 42, pls. 51-60.

- On a third New Tertiary Species of *Trigonia*. *Annals Nat. Hist.* 1875, ser. 4, xv, pp. 316-17, t. 18 b.
- On a Tertiary *Pleurotomaria*. *Ibid.* 1875, ser. 4, xvi, pp. 101-102 (woodcut).
- On a New Victorian Graptolite. *Ibid.* 1876, ser. 4, xviii, p. 126 (woodcut).
- On the Discovery of the *Trigonia acuticostata* (McCoy) in the Living State. *Ibid.* 1876, ser. 4, xviii, p. 273.
- Schedule of Reports on Fossil Specimens in the Collection of the Mining Dept., Melbourne. *Couchman's Progress Report ; Geol. Survey, Vict.* 1877, No. 6, pp. 155-158; *Ibid.* 1878, No. 5, pp. 174-176; *Ibid.* 1880, No. 6, p. 71.
- Palaeontological Notes, attached to the Quarter sheets and Horizontal Sections of the Geological Survey of Victoria, viz.: quarter sheet 2, S.W. by N. Taylor; quarter sheet 3, N.E. by N. Taylor; quarter sheet 4, S.W. by N. Taylor; hor. section 14, N.W. by H. Y. L. Brown.

McKINLAY (J.) Journal of Exploring Expedition, in charge of John McKinlay, to examine the Country of the Northern Territory recently annexed to South Australia, for the purpose of ascertaining the General Nature of the Country, &c. No. 82, pp. 22 (fcap. Adelaide, 1866) (with map by R. H. Edmunds).

- Journal of Exploration in the Interior of Australia (Burke Relief Expedition), pp. 136 (8vo. Melbourne, n.d.) (with map).

MEEK (F. B.) and Hayden (F. V.) Palaeontology of the Upper Missouri. *Smithsonian Contributions to Knowledge*, 1865, xiv, 5 plates (Reference to Genus *Eurydesma*, p. 28; also published separately, pp. 135, pls. 5) (Washington, 4to.).

MEINICKE (C. E.) Das Festland Australien, eine geographische Monographie (2 vols. 8vo. Breslau, 1837)—see vol. i, chap. 4.

MELLO (J. M.) Note on a peculiar form of Quartz Crystals from Australia. *Min. Mag. and Jour. Min. Soc. Gt. Brit. and Ireland*, 1877, No. 4, p. 123.

MELVILLE (H. S.) Sketches in Australia and the adjacent Islands, selected from a number taken during the Surveying Voyage of H.M.S. "Fly" and "Bramble," under the command of Capt. F. P. Blackwood, R.N., during the years 1842-46, 25 plates (oblong, London, n. d.) (Plate 3, Wombyan Cave, near Bonaby, Argyleshire, N. S. Wales).

MENGE (J.) The Geology of South Australia. *S. Austr. Register*, 1841, iv, Nos. 179, 181, 182, 183, 186, 188, 196.

— The Geology of South Australia. *The Southern Australian*, 1841, iv, No. 218, p. 203; *Ibid.* No. 220, p. 211; *Ibid.* No. 224, p. 228; *Ibid.* No. 228, p. 244; *Ibid.* No. 239, p. 262.

— Rambles in South Australia. *The German Austr. Post, Adelaide*, 1848 (16th March), No. 11, p. 3 (Mineral Notes).

MERCER (N.) The Chemistry of Gold, with a Sketch of its Natural History and Geological Distribution, more especially with reference to Information valuable to Australian Emigrants, &c. pp. 58 (12mo. Liverpool, 1853).

MERCURY—see Clarke (Rev. W. B.); Milligan (Dr. J.).

MERIDITH (Hon. C.) On Tin-ore from Mount Bischoff, Tas. *Proc. R. Soc. Tas.* for 1874 (June), pp. 21-22 (1874).

METALS—Metals in Victoria other than Gold. *Iron*, 1875, vi, p. 198.

- METALLURGY—The Australian Process of Smelting and Assaying Gold. *Mining Jour.* 1865, xxxv, p. 633.
- The Holloway Process of saving Gold from “Mill refuse” in Queensland. *Chem. News*, 1880, xlii, p. 187.
- METEORITES—The Deniliquin Meteorite. *The Australasian*, April 22nd, 1871; *Nature*, 1871, ix, p. 212; *Quart. Jour. Science*, 1873, iv, p. 123.
- see Buchner (Dr. O.) ; Barthelot (—) ; Gibbons (S.) ; Haidinger (W.) ; Haushofer (Dr. K.) ; Liversidge (Prof. A.).
- MEYER (H. von) Fossilen Pachydermens aus Australien. *Neues Jahrb.* 1843, p. 703.
- MIALL (Prof. C.) Report of the Committee, consisting of Prof. Huxley, LL.D. F.R.S., Prof. Harkness, F.R.S., Henry Woodward, F.R.S., James Thomson, John Brigg, and L. C. Miall, on the Structure and Classification of the Labyrinthodonts. *Brit. Assoc. Report for 1874* (pub. 1875), pp. 149-192 (*Bothriceps Australis*, Huxley, pp. 150 and 161).
- On the Genus Ceratodus, with special reference to the Fossil Teeth found at Maledi, Central India. *Palaeontologia Indica*. ser. iv, No. 2, pp. 9-17 (4to. Calcutta, 1878).
- MICHEL (H. E.) On the Treatment of Abandoned Workings of the Australian Gold Fields. *Brit. Assoc. Report for 1854*, p. 214 (title only).
- MICHIE (Sir A.) Readings in Melbourne ; with an Essay on the Resources and Prospects of Victoria, for the Emigrant and Uneasy Classes, pp. 328 (8vo. London, 1879) (The Mining Interest, p. 165).
- MILLER (F. B.) On the Detection of Spurious Gold. *Clarke's Southern Gold Fields*, 2nd ed. App. D. p. 274, 1860.
- MILLIGAN (Dr. J.) On some Fossil Plants found near Hobart Town and Launceston. *Tas. Jour. Nat. Science*, iii, pp. 131-139.

MILLIGAN (Dr. J.) Reports (Four) on the Coal Basins of Van Dieman's Land. *Proc. R. Soc. V. D. Land*, 1851, i, pp. 1-81 (plates of sections).

- Report on the Coal, said to have been found in the Don River, and on the West Bank of the Tamar River, Tasmania, 1831. *Ibid.* 1852, ii, pt. 1, pp. 90-106.
- On Lignite from near Point Rapid, Tamar River, Tasmania. *Ibid.* ii, pt. 1, p. 146.
- Fossil Ferns from below the Coal Seams, worked in the vicinity of Newlands, Tasmania. *Ibid.* 1852, ii, pt. 1, p. 151.
- Reported Discovery of Quicksilver at Broad Marsh, Tasmania. *Ibid.* 1852, ii, pt. 1, p. 156.
- On Coarse Jasper, Red Hematite, White and Compact Sandstone, Magnetic Iron Sand, &c. from Tasmanian Localities. *Ibid.* 1852, ii, pt. 1, p. 165.
- Notes on a Geological Excursion around Ben Lomond, and in the Fingal District, Tasmania. *Ibid.* 1852, ii, pt. 1, pp. 166-167.
- On an Assay of Tasmanian Gold Dust, &c. *Ibid.* 1854, ii, pt. 3, p. 484.
- On Silicified Wood from the Tertiary and Post-Tertiary Strata of Macquarrie Harbour. *Ibid.* 1854, ii, pt. 3, p. 489.
- On a Felspathic Rock with Schorl, forming the Point of Land, South from Oyster Cove, Tasmania. *Proc. R. Soc. Tas.* 1855, iii, pt. 1, p. 173.
- On a Bed of Chalk on Flinder's Island, Bass's Straits. *Ibid.* 1855, iii, pt. 1, p. 190.
- Tasmania. Its Character, Products and Resources. *Jour. Soc. Arts*, 1861, ix, pp. 377-393 (Phys. Geogr. p. 378); *Geologist*, p. 380.
- Tasmania; its Character, Products, and Resources. *Chem. News*, 1861, iii, pp. 307-311.

MILLIGAN (W.) Some account of the New Colony of W. Australia, more especially of the Swan River District, the Natives, Settlers, Climate, Soil, Productions, &c. *Madras Jour.* 1837, vi, pp. 305-336.

MINERAL Statistics, Victoria: Mineral Statistics of Victoria for the years 1864-80. Presented to both Houses of Parliament by His Excellency's command (fcap. Melbourne, 1865-81) (published yearly).

— Resources—*see* Birkmyre (W.) ; Clarke (Rev. W. B.) ; Jack (R. L.) ; Ulrich (G. H. F.).

— Veins—*see* Belt (T.) ; Hopkins (E.) ; Rosales (H.) ; Scoular (G.) ; Thompson (H. A.) ; Thomson (Dr. A. M.) ; Ulrich (G. H. F.).

— Waters—*see* Maund (Dr.) ; Newbery (J. C.).

MINERALS.—The Mineral Treasures of Australia. *Mining Jour.* 1861, xxxi, p. 454.

— The Mineral Resources of Victoria. *Ibid.* 1871, xli, p. 123.

— The Mineral Wealth of Queensland. *Iron*, 1880, xv, p. 349.

— *see* Algar (F.) ; Austin (J. B.) ; Church (Prof. A. H.) ; Garrett (Rev. J.) ; Leibius (Dr. A.) ; Liversidge (Prof. A.) ; Lhotsky (Dr. J.) ; Milligan (Dr. J.) ; Newbery (J. C.) ; Nicholas (W.) ; Odernheimer (Dr. F.) ; Rath (G. vom) ; Ulrich (G. H. F.) ; Wintle (S. A.).

MINERALOGY.—The Mineralogy of Australia. *The N. S. Wales Mag.* 1833, i, No. 1, pp. 43-45.

MINING, &c.—Current Review of Mining, Quarrying and Metallurgy in New South Wales. *Mining and Smelting Mag.* 1862, i, p. 277 ; ii, p. 177, 1863 ; iii, p. 306 ; iv, pp. 50, 115, 241, 295, 306, 363, 1864 ; v, pp. 47, 113, 176, 239, 301, 360 ; vi, p. 47.

— Surveyors, Victoria. Mining Surveyors' Reports: furnished by the Mining Surveyors of Victoria to the Board of Science, No. 1, May, 1859—No. 20, Dec. 1860, pp. 386 (8vo. Melbourne).

MINING Surveyors, Victoria. Mining Surveyors' Reports: furnished by the Mining Surveyors of Victoria to the Mining Department, No. 21, Jan. 1861—No. 32, December, 1862, pp. 576 (8vo. Melbourne).

— — — Mining Surveyors' Reports : Abstract of the Reports furnished by the Mining Surveyors of Victoria to the Mining Department (8vo. Melbourne, 1862-63).

— — Surveyors and Registrars, Victoria. Reports of the Mining Surveyors and Registrars. Presented to both Houses of Parliament by His Excellency's command, 31st March, 1864, to December 31st, 1880 (fcap. Melbourne, 1864-1880) (published quarterly).

— . Mining Adventure in South Australia. Review of its state and prospects. *Mining Jour.* 1849, xix, p. 579.

— . Mining in South Australia—Geological Formation. *Ibid.* 1852, xxii, p. 4.

— . Mining in Australia. *Iron*, 1878, xii, p. 296.

— Departments—*see Catalogues*: Baker (Honbl. E. A.) ; Lucas (Honbl. J.) ; Murray (R. A. F.) ; Suttor (Honbl. W. H.) ; Mining Surveyors and Registrars of Victoria ; Wood (H.).

— Models—Memoirs of the Melbourne Museum, &c. edited by Prof. McCoy, Director. Descriptive Catalogue of the Mining, Metallurgical, Geological, and Agricultural Models in the Natural Museum, Melbourne, pp. xvii and 80, plates 15 (large 8vo. Melbourne, n. d.).

MITCHELL (Major, Sir T. L.) An Account of the Limestone Caves of Wellington Valley, New South Wales, &c. *Proc. Geol. Soc.* 1831, i, No. 21, pp. 321-322.

— Further Notices in regard to the Fossil Bones found in Wellington Country, New South Wales. *Edinb. N. Phil. Jour.* 1831, xxv, p. 179.

— Über die Kalkstein-Höhlen in Wellington-Thale, und die Lagerung, in die daselbst fossile Knochen gefunden worden sind. *Jahrb. für Min.* 1832, p. 247.

- MITCHELL (Major Sir T. L.) An Account of the recent Exploring Expedition to the Interior of Australia. *Jour. R. Geogr. Soc.* 1837, viii, pp. 271-284.
- Three Expeditions into the Interior of E. Australia, &c. 2 vols. (8vo. London, 1838; 2nd ed. 1839).
- Account of the Exploring Expedition into the Interior of New South Wales. *Tas. Jour. Nat. Science*, iii, No. 3, pp. 165-182.
- Journal of an Expedition into the Interior of Tropical Australia, in search of a route from Sydney to the Gulf of Carpentaria (8vo. London, 1848).
- Report of the Surveyor-General on the Gold Fields of Bathurst, Wellington, &c. *Papers relating to Geol. Surveys*, 2nd Dec. 1851, No. 24, pp. 40-47 (fcap. Sydney, 1852); *Parl. Blue Book*, 28th Feb. 1853, p. 7 (fcap. London, 1853) —also as a separate Pamphlet, pp. 16 (8vo. Sydney, 1852) —see Lonsdale (W.).
- MOLLUSCA, Fossil—see Dana (Prof. J. D.) ; Etheridge (R.) ; Etheridge (R., jun.) ; Gray (Dr. J. E.) ; Jenkins (H. M.) ; Johnston (R. M.) ; De Koninck (Prof. L. G.) ; McCoy (Prof. F.) ; Moore (C.) ; Morris (Prof. J.) ; Sowerby (G. B.) ; Tate (Prof. R.) ; Woods (Rev. J. E. T.).
- MOODY (R. W.) Description of Coal Seams at Mount Kembla, near Wollongong. *Mines and Mineral Statistics, N. S. Wales*, 1875, pp. 249-252.
- MOORE (C.) Contributions to Australian Geology and Palæontology. *Brit. Assoc. Report for 1862*, pt. 2, p. 83 (1863).
- Australian Mesozoic Geology and Palæontology. *Quart. Jour. Geol. Soc.* 1870, xxvi, p. 226, pls. 10-18; *N. Jahrbuch*, 1871, p. 97.
- Note on a Plant and Insect Bed on the Rocky River, New South Wales. *Quart. Jour. Geol. Soc.* 1870, xxvi, p. 261.
- (T.) Remarks on a Collection of Geological Specimens made in Tasmania. *Proc. R. Soc. V. D. Land*, 1854, ii, pt. 3, pp. 424-433.

- MOORE (T.) On the occurrence of Tin, Zinc, Silver and traces of Gold in the Killas of St. Paul's Plains, &c. *Ibid.* 1854, ii, pt. 3, p. 490.
- On experiments testing the comparative value of the Mersey Schist, and of the Coals from Schouten Island, and the Douglas River. *Ibid.* 1855, iii, pt. 1, pp. 177-178.
- MORESBY (Capt. J.) Discoveries and Surveys in New Guinea and the d'Entrecasteaux Islands, a Cruise in Polynesia, and Visits to the Pearl-shelling Stations in Torres Straits of H.M.S. "Basilisk," pp. xviii and 327, map (8vo. London, 1876).
- MORGAN (J.) The Life and Adventures of William Buckley, thirty-two years a Wanderer amongst the Aborigines of the then Unexplored Country round Port Phillip, now the Province of Victoria, pp. x and 208 (8vo. Hobart, 1852) (Stone Implements, p. 73; with an Appendix, The "Golden Harvest," p. 181).
- (W. J.) Notes on the Gold Drifts at Ballarat. "Notes and Queries." *Geologist*, 1860, iii, p. 153.
- MORRIS (H. B.) and Kirsopp (E. J. H. F.) Report on their Survey of the Coal indications at Cape Patterson (Victoria). *The Southern Australian*, 1841, iv, No. 241, p. 269.
- (Prof. J.) On the Fossil Flora of New South Wales and Van Dieman's Land. *Strzelecki's Phys. Description of N. S. Wales and V. D. Land*, 1845, pp. 245-254, pls. 6 and 7.
- An Account of the Fossil Mollusca (Palaeozoic Series) of New South Wales and Van Dieman's Land. *Ibid.* 1845, pp. 270-296, pls. 10-18.
- The Coal Fields of New South Wales. *Mining Jour.* 1863, xxxiii, p. 898.
- Coal; its Geological and Geographical Position. Being the substance of Two Lectures delivered at the Coal Exchange Museum; and also read before the Geologists' Association, pp. 24 (8vo. London, n.d.) (Australian Coal Fields, pp. 14, 18, &c.); *Colliery Guardian*, 1863, v, pp. 265, 285, and 309.

- MOSSMAN (S.) Articles "Australasia," and "Australia." *Encyclop. Brit.* 8th edition, 1854, iv, pp. 270-301 (Mining, &c. p. 271; Discovery of Gold, Soils, &c. pp. 275, 279, 281, 289, 296).
- and Bannister (T.) Australia Visited and Revisited. A narrative of Recent Travels and Old Experiences in Victoria and New South Wales, pp. 323 (London, 1853), with Maps.
- MOUNT Bischoff Tin Mines, Tasmania—*see* Ulrich (G. H. F.); Wellington (W.); Wickham (F. D.).
- Ramsay Bismuth Mines, Tasmania—*see* Ulrich (G. H. F.).
- MOTT (F. T.) Water in Australia. *Nature*, 1881, xxiv, p. 30.
- MUDGEE Diamond Field—*see* Taylor (N.).
- MUELLER (Dr. F. von) Notice of donation of "Conchylien und Fossilreste des Thier und Planzen reiches aus der Gegend der Ballaarat." *Verhandl. K. K. Geol. Reichsanstalt, Wien.* 1860, xii, p. 80.
- Succinct Observations on a New Genus of Fossil Coniferæ, *Spondylostrobus*. *Reports, Mining Surveyors and Reg. Vict.* 31st March, 1871, pp. 48-49, t. 1 (with plan and vertical sections of the Haddon Gold Field).
- New Vegetable Fossils of Victoria described; Phymatocaryon Mackayi, Trematocaryon McLellani. *Reports, Mining Surveyors and Reg. Vict.* 30th June, 1871, App. B. pp. 47-49, pls. 2 and 3; *Ibid.* Rhytidotheca Lynchii, Plesiocapparis prisca, and Celephyra McCoyi. *Loc. cit.* 30th Sept. 1871, App. pp. 39-41, pls. 4 and 5; *Ibid.* Odontocaryon Macgregorii, Conchotheca rotundata, and Rhytidotheca pleioclinis. *Loc. cit.* 30th Sept. 1873, App. pp. 41-42, pl. 6.
- New Vegetable Fossils of Victoria described; Penteune Clarkei, P. brachyclinis, and P. trachyclinis. *Reports, Mining Surveyors and Reg. Vict.* 31st Dec. 1873, App. pp. 41-42, pls. 7 and 8 (1874); *Ibid.* Dieune pluriovulata, Platycolla Sullivani, Phymatocaryon angulare, and Conchotheca turgida. *Loc. cit.* 30th Sept. 1874, App. pp. 41-42, pls. 9 and 10; *Ibid.* Xylocaryon Lockii. *Loc. cit.* 30th June, 1875, App. pp. 41-42, pl. 11; Rhytidocaryon Wilkinsonii. *Loc. cit.* 30th Sept. 1876, pp. 39-40, pl. 12.

MUELLER (Dr. F. von) Observations on New Vegetable Fossils of the Auriferous Drifts, Victoria, pp. 31, pls. 10, plan 1 (large 8vo. Melbourne and London, 1874).

— Description of Fossil Fruits in a Siliceous Deposit, Richmond River, N. S. Wales. *Jour. R. Soc. N. S. Wales*, 1876, x, p. 239, plate; *N. Jahrbuch*, 1878, p. 775.

— Descriptive Notes on the Tertiary Flora of New South Wales. *Ann. Report, Dept. of Mines, N. S. Wales*, for 1876, pp. 178-180 (1877); *N. Jahrbuch*, 1878, p. 775.

— Observations on New Vegetable Fossils of the Auriferous Drifts: *Wilkinsonia bilaminata*. *Reports, Mining Surveyors and Reg. Vict.* 30th Sept. 1877, App. pp. 37-38, pl. 13; *Ibid. Tricoilocaryon Barnardi*. *Loc. cit.* 31st March, 1878, App. p. 35, pl. 14.

— Descriptive Notes on the Tertiary Flora of New South Wales. Vegetable Fossils of the Upper Pliocene Age, discovered at Gulgong, by C. S. Wilkinson, Esq., &c. *Annual Report, Dept. of Mines, N. S. Wales*, for 1878, pp. 169-172, pls. 3 and 4.

— *Ottelia præterita*, F. von M. *Jour. R. Soc. N. S. Wales*, 1880, xiii, pp. 95-96, t. 3.

— and Smyth (R. B.) Observations on some Vegetable Fossils from Victoria. *Quart. Jour. Geol. Soc.* 1870, xxvi, p. 610 (abstract); *Geol. Mag.* 1870, vii, p. 390.

MUIR (M. M. P.) Note on a Manganese Ore from New South Wales, and on a Specimen of Native Silver from New Zealand. *Chem. News*, 1877, xxxv, p. 6.

MULLIGAN (J. V.) Preliminary Report of the Mulligan Exploring Expedition in N. Queensland. *The Queenslander*, 1875, n. ser. x, No. 8, p. 23.

— Report on an Expedition in search of Gold and other Minerals in the Palmer Districts, pp. 23 (fcap. Brisbane, 1876).

MUNDY (Lt.-Col. G. C.) Our Antipodes, or Residence and Rambles in the Australasian Colonies, with a Glimpse of the Coal Fields, 3 vols. (8vo. London, 1852) (Vol. iii, Appendix C, Letters by Sir R. I. Murchison and Rev. W. B. Clarke).

MURCHISON (Sir R. I.) Address to the Royal Geographical Society of London ; delivered at the Anniversary Meeting on the 27th May, 1844. *Jour. R. Geogr. Soc.* 1844, xiv, pp. xlvi-cxxviii (Geological knowledge of Australia, pp. xcvi-ciii).

— A Brief Review of the classification of the Sedimentary Rocks of Cornwall. *Trans. R. Geol. Soc. Cornwall*, 1846, vi, pp. 317-326 (Gold in Australia, p. 325).

— On the Distribution of Gold Ore in the Crust, and on the Surface of the Earth. *Brit. Assoc. Report for* 1849, pt. 2, pp. 60-63 ; *Mining Jour.* 1849, xix, p. 450 ; *Ibid.* 1850, xx, p. 110 ; *Athenæum Jour.* 1850, No. 1167 (March 9th), pp. 265-266.

— On the Anticipation of the Discovery of Gold in Australia, with a general view of the Conditions under which the Metal is distributed. *Quart. Jour. Geol. Soc.* 1852, viii, pp. 134-136 ; *Mining Jour.* 1852, xxii, p. 81.

— Anniversary Presidential Address to the Royal Geographical Society. *Jour. R. Geogr. Soc.* 1853, p. lxii (Australia and its Gold, p. cxxv) ; *Proc. R. Soc. V. D. Land*, 1853, ii, pt. 2, p. 338 (*Ibid.* p. 347).

— Letter to His Grace the Duke of Newcastle, on the Discovery of Gold in Australia. *Parl. Blue Book*, Aug. 16th, 1853, p. 44.

— Address at the Anniversary Meeting of the Royal Geographical Society, May 24th, 1852. *Proc. R. Soc. V. D. Land*, 1853, ii, pp. 338-351 (Austr. Geogr. and Geol. pp. 347-351).

MURCHISON (Sir R. I.) *Siluria. The History of the oldest known Rocks containing Organic Remains, with a brief sketch of the Distribution of Gold over the Earth*, pp. viii and 523, pls. 37 (8vo. London, 1854) (*Australian Geology, &c.* pp. 14, 449, 451, and App. K, p. 497).

— *Siluria. The History of the oldest Fossiliferous Rocks and their Foundations: with a brief sketch of the Distribution of Gold over the Earth*. Third edition (including the “*Silurian System*”) with maps and many additional Illustrations, pp. xix and 592, pls. 41 (8vo. London, 1859) (*Australian Geology, &c.* pp. 10, 320, 489, and 567).

— *Siluria. A History of the oldest Rocks in the British Isles and other Countries, &c.* 4th edition, pp. xvii and 566, plates (8vo. London, 1867) (*Palaeozoic Rocks of Australia*, p. 18; *Australian Geology and Gold*, pp. 460-68).

MURRAY (A.) *The Geographical Distribution of Mammals* (8vo. London, 1866).

— *Origin of Gold Nuggets and Gold Dust. Scientific Opinion*, 1870, iii, p. 320.

— (Hon. G. F.) *Evidences of an Inland Sea, collected from the Natives of the Swan River Settlement*, pp. 64 (8vo. Dublin, 1837).

— (R. A. F.) *Quarter-sheet 64, N. E. (Mount Mercer). Geol. Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile* (Melbourne, 1868).

— *Plans showing Dyke and Quartz Lodes, Albert Co.’s Mine, Alexandria. Reports, Mining Surveyors and Registrars, Vict. No. 9, 30th June*, p. 27 (fcap. Melbourne, 1870).

— *Paper on the Durham Lead from Sebastopol to Mount Mercer, Victoria. Ibid. No. 9, 30th June*, pp. 43-46 (fcap. Melbourne, 1870), with Geological Map of Portion of the Durham Lead. Scale: 40 chains to 1 inch—see Etheridge (R., jun.).

- MURRAY (R. A. F.) Geological Map of the Sandhurst Gold Field.
Scale : 40 chains to 1 inch (Melbourne, 1873).
- Geological Map of the Ballarat Gold Field. Scale : 40 chains to 1 inch, with five horizontal sections. Scale : 40 chains to 1 inch horizontal, 400 feet to 1 inch vertical (Melbourne, 1874).
- Vertical Section of Davis' Shaft, Cape Paterson. Scale : $\frac{1}{4}$ inch to 1 foot. *Smyth's Progress Report*, No. 1, 1874 (to face p. 22).
- Section showing Lignite Deposit, McKirley's Creek, near Cross-over Creek, South Gippsland. Scale : 20 feet to 1 inch. *Ibid.* No. 1, 1874 (to face p. 28).
- A Report on the Geology and Mineral Resources of Ballarat. *Ibid.* No. 1, 1874, pp. 63-88.
- Special Report on the Freestone Creek Deep Lead, near Briagolong. *Reports, Mining Surveyors and Reg. Vict.* quarter ending June 30th, 1874, p. 41 (with plan); *Smyth's Progress Report*, No. 2, *Geol. Survey, Vict.* 1875, pp. 100-101 (with plan showing position of Freestone Creek Deep Lead Co.'s Shaft. Scale : 60 chains to 1 inch).
- Report on the Geology and Mineral Resources of South-western Gippsland. *Smyth's Progress Report*, No. 3, *Geol. Survey Vict.* 1876, pp. 134-174, with—
Geological Map of Tangil. Scale : 20 chains to 1; Geological Map of the Foster Gold Field. Scale : 20 chains to 1 inch; and Plan showing Gold Workings and Dyke, Turton's Creek, S.W. Gippsland. Scale : 20 chains to 1 inch.
- Progress Report on the Geology of portions of the Country between the Thomson and Wonnangatta Rivers, N. Gippsland. *Couchman's Progress Report, for 1876*, No. 4, *Geol. Survey, Vict.* (1877) pp. 52-57 (with Geological Map of portion of the Parish of Glenmaggie, Gippsland. Scale : 40 chains to 1 inch).
- Report on the Geology of portion of the Cape Otway District. *Ibid. for 1877*, No. 5 (1878), pp. 127-135 (with Geological Sketch Map of portion of Cape Otway District. Scale : 2 miles to 1 inch).

MURRAY (R. A. F.) Geological Sketch Map, Sheet No. 2, South-east Gippsland, Report of Progress. *Couchman's Progress Report, for 1877, No. 5, Geol. Survey, Vict.* (1878), pp. 44-70, with—

(a) Section of Beds at the Snowy Bluff, Gippsland. (b) Actual and Ideal Sections from Connor's Plain to Snowy Bluff. Scale: *Hor.* 18 miles to 1 inch, *Vert.* 12,000 feet to 1 inch. (c) Plan and Section Donelly's Creek Gold Workings. Scale: 40 chains to 1 inch. (d) Sketch Section of Crinoline Reef, Florence Company, Donelly's Creek. (e) Sketch Sections, Edward's and Harp Reefs, Gippsland Consols Gold Mining Company. (f) Sketch Sections, Sterling Tunnel. (g) Longitudinal Section showing Auriferous Shoot in the Walhalla and Long Tunnel Company's Mines, Cohen's Reef, Walhalla. Scale: 160 feet to 1 inch. (h) Sections of Short Long Tunnel, and Walhalla Company's Mines. Scale: 160 feet to 1 inch. (i) Sections of Lodes and Dykes, Long Tunnel Mine. (k) Plan and Sections of Tunnel Great Extended Walhalla Gold Mining Company. Scale: 20 chains to 1 inch. (l) Sections of Dykes, Longfellow's Reef. Scale: 100 feet to 1 inch. (m) Sections of "Fear not" Mine, and "Happy Go Lucky" Reef. (n) Plan and Sections of Walhalla Copper Mine, Thomson River.

— Report on the Geological Survey of portions of Dargo and Bogong. *Ibid.* 1877, No. 5 (1878), pp. 96-111 (with Geological Sketch Map of Portions of the Counties of Dargo and Bogong. Scale: 2 miles to 1 inch).

— Report on the Geological Survey of the Woods Point District, Victoria. *Ibid. for 1878-79, No. 6* (1880), pp. 36-38.

— Report on the Geological Survey of the Russell's Creek Gold Field, Gippsland. *Ibid. for 1878-79, No. 6* (1880), pp. 39-47 (with Geological Sketch Map of the Russell's Creek Gold Field. Scale: 1 mile to 1 inch).

— Remarks on Sites near Smeaton and Clunes, suitable for bores for testing the relative depths of the Basaltic Rocks, and ascertaining the direction of deep Auriferous Leads. *Ibid.* 1880, No. 6, pp. 48-51, with—

(a) Plan of portion of County of Talbot showing sites recommended for boring for extension of the Deep Leads of Creswick and Clunes.

MURRAY (R. A. F.) Report on the Proposed Scheme for the Underground Drainage of the Sebastopol Plateau, and Durham Lead. *Couchman's Progress Report, for 1880, No. 6, Geol. Survey of Victoria*, pp. 51-55, with—

(a) Plan of the Ballarat, Sebastopol, and Buningong Gold Field, in Two sheets. Scale : 2 inches to 1 mile. (b) Plan of Underground workings of the Band of Hope and Albion Consols Company, Ballarat. Scale : 300 feet to 1 inch.

— Report on a Coal Seam in the Parish of Barongarook, near Colac. *Ibid. 1880, No. 6*, p. 56 (with Plan showing position of Coal Seam discovered near Colac. Scale : 2 miles to 1 inch).

— Report on a Coal Seam at the head of Mosquito Creek, Parish of Moe. *Ibid. 1880, No. 6*, p. 57 (with Diagrams illustrating occurrence of Coal Seam on Peter Mills' Selection, Parish of Moe. Scale : 40 feet to 1 inch).

— and Griscom (C). Report relative to the Selection of suitable sites for boring for Coal in the Western Port and Gippsland Districts. *Ibid. 1880, No. 6*, pp. 58-59, with—

(a) Map of Western Port and Cape Patterson Coal Fields. Scale : 100 chains to an inch. (b) Sketch map of a portion of the Coal-bearing Strata of Gippsland, showing sites recommended for boring. Scale : 2 miles to 1 inch.

— (S.) Plan of the Hepburn Line of Reefs, Daylesford. *Reports, Mining Surv. and Registrars, Vict. No. 26, March 31st, 1871.*

— (W.) On a Peculiar Substance in the Limestone Caves of South Australia. *Geologist, 1862, v*, p. 63.

NANKIVELL (R.) Plan and Sections of the Beehive Company's Mine, Maldon, with Remarks. *Reports, Mining Surv. and Registrars, Vict. No. 1, 1870.*

— Plans and Sections of the Great Western Quartz Mining Company, Beehive Reef, Maldon. *Reports, Mining Surv. and Registrars, No. 3 (? 1872).*

NAPIER (F.) Notes on the Physical Geography of the North Coast of Australia. *Proc. Phil. Soc. Glasgow, 1876, x, No. 1*, pp. 40-50 (map); also as a Pamphlet, pp. 11 (8vo. Glasgow, 1876).

- NEUHAUSS (Otto) Goldvorkommen in Australien. *Zeit. der Deuts. Geologisch. Gesellsch.* 1853, v, p. 267.
- NEUMAYER (Dr. G.) On a Project for the Scientific Exploration of Central Australia. *Proc. R. Geogr. Soc.* 1868, xii, p. 286.
- NEWBERY (J. C.) Geol. Survey of Victoria. Laboratory Report for the Year 1865. *Reports relative to the Geol. Survey of Vict.* 1865, No. 14, App. C. pp. 13-14 (fcap. Melbourne, 1866).
- On the Mineral Waters of Victoria. *Trans. R. Soc. Vict.* 1868, viii, p. 278.
- Geological Survey of Victoria. Laboratory Report for the years 1866-67. *Report of the Director, Geol. Survey, Vict.* 1868, No. 15, pp. 20-21 (fcap. Melbourne, 1868).
- On the formation of Gold Nuggets in Auriferous Drift. *Ibid.* 1869, ix, pt. 2, pp. 52-60.
- On the Ornamental Stones of the Colony of Victoria. *Ibid.* 1869, ix, pt. 2, pp. 79-85.
- Laboratory Reports of the Mining Department of Victoria. Examinations, Analyses, and Assays of Specimens from the Mining Districts. *Mineral Statistics of Vict. for the year 1869*, App. D, pp. 50-52; *Ibid. for the year 1870*, No. 4, App. D; *Ibid. for the year 1871*, No. 8, App. D, pp. 48-49; *Ibid. for the year 1872*, No. 7, App. D, pp. 55-55 (fcap. Melbourne, 1870-1873).
- Laboratory Report of Analyses, Examinations and Assays of Specimens from Mining Districts of Victoria. *Smyth's Progress Report, Geol. Survey, Vict.* 1875, No. 2, pp. 127-134; *Ibid. Report 3*, 1876, pp. 290-307; *Couchman's Progress Report, Geol. Survey, Vict.* 1877, No. 4, pp. 159-175; *Ibid. Report 5*, 1878, pp. 177-190; *Ibid. Report 6*, pp. 72-79.
- Analyses of a Parcel of Cobaltiferous Manganese Ore, from a dyke at the Little Dorrit Claim, Grant, &c. *Ibid. for 1876*, No. 4, *Geol. Survey, Vict.* 1877, p. 117.

- NEWBERRY (J. C.) Report on the examination of specimens of Black Basalt and Anamesite from Learmonth. *Couchman's Progress Report, for 1877, No. 5, Geol. Survey, Vict. 1878*, pp. 81-82.
- Reports of the Government Analyst on Rocks and Coals collected at Cape Patterson. Appendix C. Report of the Board, Western Port Coal Fields, pp. 28-29 (fcap. Melbourne, 1872).
- On the formation of *Hyalite* by the action of Ammonia. *Trans. R. Soc. Vict. 1879, xv*, pp. 49-51.
- Some New Localities for Minerals in Victoria. *Ibid. 1880, xvi*, pp. 144-45.
- NEW Caledonia—Geology of New Caledonia. *American Jour. 1876, 3rd ser. xi*, pp. 151-152.
- NEWCASTLE Coal Field—*see* Clarke (Rev. W. B.) ; Keene (W.) ; Leichhardt (L.) ; Mackenzie (J.) ; Plews (H. T.).
- NEW Guinea—*see* Wilkinson (C. S.) ; Woods (Rev. J. E. T.).
- Gold in—*see* Wilkinson (C. S.).
- NEWMAN (—) Report on the Tin Mines of Tasmania. *Iron, 1875, vi*, p. 711.
- NEW South Wales—The Colony of New South Wales. Its Agricultural, Pastoral, and Mining Capabilities, compiled by the Commissioners of the Colonial Government, International Exhibition of 1862, pp. 16 (8vo. London, 1862) (Mining Information, p. 14).
- Its Progress and Resources, pp. 31 (8vo. Sydney, 1876).
- Geological Surveys.—Papers relating to Geological Surveys, laid upon the Council Table, by the Colonial Secretary, and ordered by the Council to be printed, 2nd December, 1851, pp. 109 (fcap. Sydney, 1852)—*see also* Beche (Sir H. T. de la) ; Bristow (H. W.) ; Roy (Sir C. A. Fitz-) ; Stutchbury (S.).
- Correspondence between the Colonial Secretary (E. Deas Thomson, Esq.), and the Geological Surveyor (S. Stutchbury, Esq.), relative to. *Papers relative to Geol. Surveys, 2nd Dec. 1851*, pp. 9-18 (fcap. Sydney, 1852).

NEW South Wales Gold Districts. Papers relative to the Gold Districts of New South Wales, laid upon the Council Table by the Colonial Secretary, and ordered by the Council to be printed, 24th June, 1852, pp. 17 (fcap. Sydney, 1852)—*see* Hardy (J. R.).

- Mines, Inspectors of—*see* Slee (W. H. J.) ; Wood (H.).
- Mines and Mineral Statistics, 1875. New South Wales, Intercolonial and Philadelphia International Exhibition. Mines and Mineral Statistics of New South Wales, and Notes on the Geological Collection of the Department of Mines, &c. pp. 252 (8vo. Sydney, 1875), with—
 - (a) Sketch Map of N. S. Wales, showing the localities of the Principal Minerals, 1875 : Scale, 50 miles to 1 inch ; and other maps and sections.
- see also* Gower (G. H.) ; Liversidge (Prof. A.) ; Moody (R. W.).
- Reports of the Gold Fields Wardens, 1874. *Mines and Mineral Statistics, N. S. Wales, for 1875*, pp. 14-48—*see* Browne (T. A.) ; Buchanan (—) ; Clarke (—) ; Dalton (—) ; De Boos (C.) ; Hutton (—) ; Johnston (—).
- Mines and Mineral Statistics, 1876. Annual Report of the Department of Mines, N. S. Wales, for the year 1876, pp. v and 184, plans, maps, sections (4to. Sydney, 1877)—*see also* Liversidge (Prof. A.) ; Mackenzie (J.) ; Masters (J.) ; Slee (W. H. J.).
- Reports of the Gold Fields Wardens, 1876. *Ann. Report, Dept. of Mines, N. S. Wales, for 1876*, pp. 36-73—*see* Dalton (—).
- Reports of the Mining Registrars, 1876. *Ibid. for 1876*, pp. 74-116—*see* Gower (G. H.) ; Margules (H.).
- Mines and Mineral Statistics, 1877. Annual Report of the Department of Mines, New South Wales, for the year 1877, pp. 212, maps, plans, &c. (4to. Sydney, 1878)—*see also* Wood (H.) ; Pittman (E. F.) ; Masters (J.) ; Lewis (T.) ; Liversidge (Prof. A.) ; Mackenzie (J.) ; Slee (W. H. J.).

- NEW South Wales—Reports of the Gold Fields Wardens, 1877.
Ann. Report, Dept. of Mines, N. S. Wales, for 1877, pp. 58-113—*see also* Buchanan (—); Dalton (—).
- Reports of the Mining Registrars, 1877. *Ibid. for 1877*, pp. 114-155—*see also* Gower (G. H.).
- Mines and Mineral Statistics, 1878. Annual Report of the Department of Mines, New South Wales, for the year 1878, pp. 179, maps, &c. (4to. Sydney, 1879)—*see also* Dixon (W. A.); Etheridge (R., jun.); Lewis (T.); Liversidge (Prof. A.); Mackenzie (J.); Mueller (Baron F. von); Slee (W. H. J.).
- Reports of the Gold Fields Wardens, 1878. *Ann. Report, Dept. of Mines, N. S. Wales, for 1878*, pp. 61-96—*see also* Dalton (—).
- Reports of the Mining Registrars, 1878. *Ibid. for 1878*, pp. 97-133—*see also* Dalton (—); Gower (G. H.); Graham (—).
- Mines and Mineral Statistics, 1879. Annual Report of the Department of Mines, New South Wales, for the year 1879, pp. 231, maps, &c. (4to. Sydney, 1880)—*see also* Dixon (W. A.); Lewis (T.); Liversidge (Prof. A.); Mackenzie (J.); Pittman (E. F.); Wilkinson (C. S.); and Young (L.).
- Reports of the Gold Fields Wardens, and Mining Registrars, 1879. *Ann. Report, Dept. of Mines, N. S. Wales, for 1879*, pp. 69-189—*see also* Browne (T. A.); Dalton (—); Gower (G. H.); Graham (—); Margules (H.); Maybury (C. E. B.); Sharp (E. A.).
- Reports of Geological Survey—*see* Pittman (E. F.); Wilkinson (C. S.); Young (L.)—*see also* Maps.

NEWTON (E. T.) On “Tasmanite” and Australian “White Coal.” *Geol. Mag.* 1875, Dec. 2, ii, pp. 337-342, t. 10.

- NICHOLAS (W.) Special Report on the Geology of the Country between Tallarook and Longwood, on the North-eastern Railway, Vict. *Reports, Mining Surveyors and Regs. Vict. for the quarter ending March 31st, 1874*, pp. 39-40; *Smyth's Progress Report*, No. 2, *Geol. Survey, Vict. 1875*, pp. 118-121 (with plan and sections showing the Upper Palaeozoic Rocks between Tallarook and Longwood. Scale: 8 miles to 1 inch).
- Notes on the Quartz Reefs, or Lodes, of Sandhurst, Victoria, Australia. *Trans. R. Geol. Soc. Cornwall*, 1875, ix, pt. i, pp. 78-97.
- Report on the Geological Features of the Country near Mount Piper. *Smyth's Progress Report*, No. 2, *Geol. Survey, Vict. 1875*, pp. 121-125 (with plan of the Upper Silurian and Newer Volcanic Rocks between Tallarook and Kilmore. Scale: 8 miles to 1 inch).
- Localities of Minerals which occur in Victoria. *Ibid. No. 3, 1876*, pp. 280-288.
- Report on the Discovery of Coal at Sunbury. *Ibid. 1876*, pp. 288-290.
- Notes on some Characteristics of Auriferous Quartz Reefs or Veins. *Couchman's Progress Report for 1876*, No. 4, *Geol. Survey, Vict. 1877*, pp. 145-154 (tables).
- Remarks on the Geology and Mining Resources of the North Waranga Mining Subdivision. *Ibid. for 1877*, No. 5 (1878), pp. 153-159 (with Geological Sketch Map of portion of the North Waranga Mining Division. Scale: 8 miles to 1 inch).
- Quartz Mining at Rushworth. *Ibid. for 1877*, No. 5 (1878), pp. 160-164 (with Sketch Plan of Gold Workings at Rushworth. Scale: 2 miles to 1 inch).
- Quartz Mining at Whroo. *Ibid. for 1877*, No. 5 (1878), pp. 165-169 (with Sketch Plan of Gold Workings at Whroo. Scale: 2 mile to 1 inch).

- NICHOLAS (W.) Quartz Mining at Coy's Diggings. *Couchman's Progress Report, for 1877*, No. 5 (1878), *Geol. Survey, Vict.* pp. 170-171.
- Quartz Mining at Cherry Tree Flat and Fontainbleau. *Ibid. for 1877*, No. 5 (1878), pp. 171-174.
- NICHOLLS (C. F.) Probability of a Deep Lead of Gold round Melbourne, pp. 14 (8vo. Melbourne, 1865).
- NICHOLSON (C.) On Fossil Bones imbedded in the banks of the Brisbane River, New South Wales. *Proc. Geol. Soc.* 1842, iv, p. 23.
- (Dr. —) On Bituminized Wood from an Excavation at Illawarra. *The Sydney Colonist*, 1835, i, No. 8, pp. 61-62.
- (Prof. H. A.) On the Structure and Affinities of the Tabulate Corals of the Palaeozoic Period with critical descriptions of Illustrative Species, pp. xii and 342, pls. 15 (8vo. Edinburgh, 1879) (Observations on Genera *Aræopora*, N. and F. pp. 165-168; *Stenopora*, Lonsd. pp. 168-177, &c.).
- On the Structure and Affinities of the Genus *Monticulipora* and its Sub-Genera, with critical Descriptions of Illustrative Species, pp. xvi and 240, pls. 6 (8vo. Edinburgh and London, 1881)—(see *Stenopora*, &c. p. 79).
- and Etheridge (R., jun.) Description of Palaeozoic Corals, from Northern Queensland, with Observations on the Genus *Stenopora*. *Annals Nat. Hist.* 1879, iv, pp. 216 and 269; *N. Jahrbuch*, 1880, ii, p. 402.
- NICKEL and Cobalt—see Dixon (W. A.) ; Liversidge (Prof. A.) ; Typke (P. G. W.).
- NICKELS (B.) The Metal Sands of Australia. *Mining Jour.* 1860, xxx, p. 486.
- NICOLL (W.) Observations on the Fossil Trees of Van Dieman's Land. *Edinb. N. Phil. Jour.* 1831, x, pp. 361-364.
- On Fossil Wood from Newcastle, New South Wales. *Ibid.* 1833, xiv, pp. 155-158, plate 3; *Froriep. Notizen*, xxvii, 1833, col. 5-7; *Jahrb. für Mineralogie*, 1833, p. 618.

- NICOLL (W.) On the Anatomical Structure of Recent and Fossil Woods. *Brit. Assoc. Report for 1834*, pt. 2, p. 660.
- NISSEY (P.) On the Geological Distribution of Gold, &c. *Trans. Phil. Inst. Vict.* 1860, iv, pp. 15-40.
- On the Origin of the Metals in the Pleistocene Detritus. *Melbourne Mining Journal*, 1861, iii, p. 99.
- NORFOLK Island—*see* Maconochie (Capt.).
- NORMAN (W. H.) Victoria Exploration Expedition. Report of Commander Norman, of H.M.C.S. "Victoria," together with Copy of his Journal on the late Expedition to the Gulf of Carpentaria, No. 109, pp. 31 (fcap. Melbourne, 1861-62).
- NORRIE (J. S.) Details of Assays of a picked specimen of Bathurst Gold. *Proc. R. Soc. V. D. Land*, 1852, ii, pt. 1, pp. 154-155.
- Analysis of Australian and New Zealand Coals. *Sydney Mag. Science and Art*, 1858, i, p. 94.
- NORTH Australia—*see* Earl (G. W.) ; Thompson (H. A.) ; Plunkett (J. A.).
- Western Australia—*see* Fitton (W. H.) ; Gregory (F. T.) ; Napier (F.) ; Wilson (J. G.).
- NOWELL (E. C.) Report on the Statistics of Tasmania. Paper relating to Her Majesty's Colonial Possessions, part 1, pp. 218-242 (8vo.).
- NUGGETS—The "King of Nuggets," the largest specimen of pure Gold found in Australia. *American Jour. Sc.* 1852, 2nd ser. xiv, p. 440.
- List of Gold Nuggets found in Victoria from 1st October, 1874, to 30th September, 1875. *Smyth's Progress Report*, No. 3 ; *Geol. Survey Vict.* 1876, pp. 118-119.
- List of Gold Nuggets found in Victoria from 1st October, 1875, to 30th Sept. 1876. *Couchman's Progress Report*, No. 4, *Geol. Survey, Vict.* 1877, p. 49.

NUGGETS—List of Gold Nuggets found in Victoria from 1st October, 1876, to 30th September, 1877. *Couchman's Progress Report*, No. 5, *Geol. Survey, Vict.* 1878, p. 43.

— the same, from 1st October, 1877, to 30th June, 1879. *Ibid.* No. 6, 1880, p. 35.

— (Gold)—see Birkmyre (—) ; Murray (A.) ; Newbery (J. C.) ; Skey (W.) ; Tennant (Prof. J.) ; Wilkinson (C. S.).

NULLIPORES, Fossil—see Waters (A. W.).

OBITUARY Notice—Two Australian Geologists. The Rev. W. B. Clarke, M.A., and Richard Daintree, C.M.G. *Nature*, 1878, xviii, p. 389—see Clarke (Rev. W. B.) ; Etheridge (R., jun.).

ODERNHEIMER (Dr. F.) Catalogue of a Collection of Rocks and Minerals from the Gold Fields of the Peel River Land and Mineral Company's Estate, and adjoining District, Liverpool Plains, County of Parry. *Cat. Nat. and Indust. Products, N. S. Wales*, 1854, pp. 52-55 (4to. Sydney, 1854).

— On the Geology of part of the Peel River District in Australia. *Quart. Jour. Geol. Soc.* 1855, xi, pp. 399-402.

— Catalogue of a Collection of Rocks and Minerals of the Peel River Land and Mineral Company's Estate and adjoining Districts, Liverpool Plain, &c. *British Cat. Exposition Universelle, Paris*, 1855, pp. 110-112 (large 8vo. London, 1855).

— Das Festland Australien Geographische, Naturwissenschaftliche und Kulturgeschichtliche Skizzen, pp. 151 (8vo. Wiesbaden, 1861).

“**OFFICER, A Retired.**”—The Friend of Australia ; or, a Plan for Exploring the Interior, and for carrying on a Survey of the whole Continent of Australia, pp. 428 (8vo. London, 1830), with map and plates.

OLFUS (— von) Goldkrystalle aus Australien. *Zeit. Deuts. Geol. Gesellsch.* 1855, vii, p. 3.

OLIPHANT (W.) On Lignite from the Ballarat Gold Field.
Proc. R. Phys. Soc. Edinb. 1858, i, p. 405.

ORGANIC Remains (Fossils)—see Dana (Prof. J. D.) ; Duncan (Prof. P. M.) ; Etheridge (R.) ; Etheridge (R., jun.) ; De Koninck (Prof. L. G.) ; Lonsdale (W.) ; McCoy (Prof. F.) ; Moore (C.) ; Owen (Prof. R.) ; Tate (Prof. R.) ; Woods (Rev. J. E. T.).

OSERSKY (A. V.) Ueber das russische Riesen-goldgeschiebe.
Verhandl. K. K. Mineral. Gesellsch. St. Petersb. 1843, pp. 70-80 (References to the Islands Celebes, Borneo, &c.).

OWEN (Prof. R.) Odontography, or a Treatise on the Comparative Anatomy of the Teeth, &c. 2 vols. (8vo. London, 1840-45) (Teeth of *Diprotodon*, *Nototherium*, &c. pp. 394-396, &c.).

— Descriptive Catalogue of the Osteological Series contained in the Museum of the Royal College of Surgeons of England (4to. London) (vol. i, 1853, Pisces, Reptilia, Aves and Marsupialia).

— On the Discovery of the Remains of a Mastodontoid Pachyderm in Australia. *Annals Mag. Nat. Hist.* 1843, xi, pp. 7-12 ; *Neues Jahrb. für Min.* 1843, p. 372.

— Additional Evidence proving the Australian Pachyderm to be a Dinothereum. With Remarks on the Nature and Affinity of that Genus. *Annals Nat. Hist.* 1843, xii, pp. 329-332.

— Report on the Extinct Mammals of Australia, with Descriptions of certain Fossils indicative of the former Existence in that Continent of large Marsupial Representatives of the Order Pachydermata. *Brit. Assoc. Report for 1844*, pp. 223-240 ; *Athenæum*, July, 1845 ; *Tas. Jour. Nat. Sc.* ii, No. 2, pp. 455-56 ; *American Jour. Sc.* 1846, 2 ser. i, pp. 129-130.

— Description of a Fossil Molar Tooth of a Mastodon discovered by Count Strzelecki in Australia. *Annals Mag. Nat. Hist.* 1844, xiv, pp. 268-271.

- OWEN (Prof. R.) On Gigantic Extinct Mammalia in Australia.
Edinb. N. Phil. Jour. 1845, xxxviii, pp. 177-178 ; *Froriep. Notizen.* 1845, xxxiv, col. 183-184.
- On the Geographical Distribution of Extinct Mammalia.
Tas. Jour. Nat. Science, iii, pt. 3, p. 214.
- Description of a Fossil Molar Tooth of a Mastodon, &c.
Calcutta Jour. Nat. Hist. 1845, v, pp. 572-576.
- On some Outline Drawings and Photographs of the Skull of *Zygomaturus trilobus* (Macleay), from Australia. *Quart. Jour. Geol. Soc.* 1858, xiv, pp. 541-543 (abstract) ; *Geologist*, 1838, i, p. 166 ; *Quart Jour. Geol. Soc.* 1859, xv, pp. 133 and 166-176, pls. 7 and 8.
- Article “Palæontology.” *Encyclop. Brit.* 1859, xvii, pp. 91-176 (*Thylacinus*, p. 158, *Diprotodon*, and *Thylacoleo*, p. 175).
- On a Collection of Australian Fossils in the Museum of the Worcestershire Natural History Society, with a description of the lower jaw and teeth of *Nototherium inerme* (Owen), and *N. Mitchelli* (Owen), demonstrating their identity with *Zygomaturus trilobus* of Macleay, from Australia. *Geologist*, 1858, i, p. 359 ; *Quart. Jour. Geol. Soc.* 1859, xv, pp. 176-186, pl. 9.
- On the Fossil Mammals of Australia. Pt. i. Description of a Mutilated Skull of a large Marsupial Carnivore, *Thylacoleo carnifex* (Owen), from a Conglomerate Stratum, 80 miles south-west of Melbourne. *Proc. R. Soc.* 1858, ix, p. 585 ; *Phil. Trans.* 1859, pp. 161-169 ; *Annals Nat. Hist.* 1859, iv, pp. 63-64.
- Description of some Remains of a gigantic Land Lizard (*Megalania prisca*, Owen). *Annals Nat. Hist.* 1858, ii, pp. 289-290 ; *Phil. Trans.* 1859, cxlix, pp. 43-48, pls. 7 and 8.
- Presidential Address to the British Association at Leeds, 28th Meeting. *Brit. Assoc. Report for* 1858, pp. xlix-cx (Fossil Marsupials, pp. lxxxvii and lxxxix).

- OWEN (Prof. R.) *Palaeontology, or a Systematic Summary of Extinct Animals and their Geological Relations* (8vo. London, 1860) (Extinct Australian Marsupials, pp. 393-397).
- On a Mesozoic Form of Life in Australia. *Annals Nat. Hist.* 1862, 3rd ser. ix, p. 486.
- On the Fossil Mammals of Australia. Pt. II. Description of an almost entire Skull of *Thylacoleo carnifex* (Owen), from a fresh-water deposit, Darling Downs, Queensland. *Proc. R. Soc.* 1865, xiv, p. 343; *Phil. Trans.* 1866, clvi, p. 73, pls. 3-4.
- On the Upper Incisor of *Nototherium Mitchelli* (Owen). *Annals Nat. Hist.* 1866, xviii, p. 475, pl. 14.
- On the Anatomy of Vertebrates, 3 vols. (8vo. London, 1866-68) (Monotremata and Marsupialia, vol. ii, pp. 312-63).
- On a Collection of Fossil Bones from Risdon, Tasmania. *Papers and Proc. R. Soc. Tas.* 1867 (June), p. 18.
- On the Fossil Mammals of Australia. Part III. On *Diprotodon Australis* (Owen). *Proc. R. Soc.* 1870, xviii, p. 196; *Phil. Trans.* clx, p. 519, pls. 35-50.
- On the Fossil Mammals of Australia. Part IV. On the Dentition and Mandible of *Thylacoleo carnifex* (Owen), with Remarks on the Arguments for its Herbivory. *Proc. R. Soc.* 1870, xix, p. 95; *Phil. Trans.* 1871, clxi, pp. 213, pls. 11-14.
- On the Fossil Mammals of Australia. Pt. V. On the Genus *Nototherium* (Owen). *Proc. R. Soc.* 1871, xix, p. 494; *Geol. Mag.* viii, p. 464; *Phil. Trans.* 1872, clxii, p. 41, pls. 2-11.
- On the Fossil Mammals of Australia. Pt. VI. On the Genus *Phascolomys* (Geoffroy). *Proc. R. Soc.* 1871, xx, p. 66; *Phil. Trans.* 1872, clxii, p. 173, pls. 17-23.
- On the Fossil Mammals of Australia. Pt. VII. On the Genus *Phascolomys*, Species exceeding the existing ones in size. *Proc. R. Soc.* 1872, xx, p. 306; *Phil. Trans.* 1872, clxii, p. 241, pls. 32-40.

- OWEN (Prof. R.) On *Dinornis*. Part xix, containing a description of a Femur indicative of a new Genus of large Wingless Bird (*Dromornis Australis*) from a Post-Tertiary Deposit in Queensland, Australia. *Trans. Zool. Soc.* 1873, viii, pt. 3, pp. 381-384, pls. 62-63.
- On the Fossil Mammals of Australia. Part viii. Family Macropodidæ: Genera *Macropus*, *Osphranter*, *Phascolagus*, *Sthenurus*, and *Protemnodon*. *Proc. R. Soc.* 1873, xxi, p. 126; *Phil. Trans.* 1874, clxiv, pt. 1, pp. 245-287, pls. 20-27.
- On the Fossil Mammals of Australia. Part ix. Family Macropodidæ: Genera *Macropus*, *Pachysiagon*, *Leptosiagon*, *Procoptodon*, and *Palorchestes*, *Proc. R. Soc.* 1873, xxi, p. 386; *Phil. Trans.* 1874, clxiv, pt. 2, pp. 783-98, pls. 76-83.
- On the Physical Configuration of Australia, and its Geological Causes. *Warburton's Journey across the W. Interior of Austr. &c.* 1875, pp. 294-296.
- On the Fossil Mammals of Australia. Part x. Family Macropodidæ: The Mandibular dentition and parts of the Skeleton of *Palorchestes*, with additional Evidences of *Sthenurus*, *Macropus Titan*, and *Procoptodon*. *Proc. R. Soc.* 1875, xxiii, No. 162, p. 451 (abstract); *Phil. Trans.* 1876, clxvi, pt. i, pp. 197-226.
- Researches on the Fossil Remains of the Extinct Mammals of Australia, &c. 2 vols. (4to. London, 1877).
- Notice of a Memoir on Additional Evidence recently obtained as to the occurrence of Extinct Gigantic Birds allied to *Dromornis* in Australia. *Proc. Zool. Soc.* 1877, pt. 1, p. 95.
- Additional Evidence of the Genus *Dromornis* in Australia. *Trans. Zool. Soc.* 1877, x, pt. 3, pp. 186-188, pl. 32.
- On the Extinct Animals of the Colonies of Great Britain. *Pop. Sci. Review*, 1879, No. 11, pp. 253-273 (Australia, p. 265).

OWEN (Prof. R.) Description of a Portion of a Mandible and Teeth of a large extinct Kangaroo (*Palorchestes crassus*, Ow.) from ancient Fluvial Drift, Queensland. *Trans. Zool. Soc.* 1880, xi, pt. i, pp. 7-10, pl. 2.

— Description of some Remains of the Gigantic Land-Lizard (*Megalania prisca*, Owen) from Australia. Part 2. *Proc. R. Soc.* 1879, xxix, p. 304; *Phil. Trans.* 1880, clxxi, pt. 3, pp. 1037-1050, pls. 34-38.

OXEY (J.) Journals of Two Expeditions into the Interior of New South Wales, undertaken by order of the British Government in the years 1817-18, with maps and views of the Interior, or newly discovered Country, pp. 408 (4to. London, 1820).

— Report of an Expedition to survey Port Curtis, Moreton Bay and Port Bowen, &c. *Field's Geograph. Mem. on N. S. Wales, &c.* 1825 (8vo. pp. 1-26) (Notes on the Soils, &c.).

PAPERS, Parliamentary—see Goalen (Lieut. W. N.); Thomson (E. Deas); Roy (Sir —).

PARKER (W. K.) and Jones (T. R.) Notes on Fossil Foraminifera from the Polyzoal Limestone of Mount Gambier, South Australia. *Quart. Jour. Geol. Soc.* 1860, xvi, p. 261.

PARKINSON (J.) Organic Remains of a Former World, &c. 3 vols. (4to. London, 1820) (Fossil Wood from Preservation Island, i, p. 381).

PARROTT (J. S.) Sixteen Sheets of Mining Plans, Hawkins Hill, near Hill End and Tambaroora, N. S. Wales. To accompany *Ann. Report, Dept. of Mines, N. S. Wales, for 1879* (Sydney, 1880).

PECHAR (J.) Paris International Exhibition, 1878. Coal and Iron in all the Countries of the World. Compiled from Official Sources and with the assistance of Eminent living Authorities, pp. xvi and 223 (8vo. London, n. d.) (Australia, p. 219).

PEERS (J. G.) Special Report on the Bendoc Gold Field. *Reports of the Mining Surv. and Regist.* No. 55, 1869.

PENNY (Prof.) Report on the Chemical Qualities and Analysis of a Combustible Mineral Substance from the Mersey River, Tasmania, &c. *Proc. R. Soc. V. D. Land*, 1855, iii, pt. 1, p. 108-115.

— Report on the Chemical Qualities and Analysis of a Chemical Substance from Van Dieman's Land; forwarded by Mr. A. McNaughtan, Hobart Town, through Mr. R. McNaughtan, Glasgow, sent to Sir W. Denison by Mr. McNaughtan. *Sydney Mag. Science and Art*, 1859, ii, pp. 213-215.

PENTLAND (W.) Communication verbal sur les Ossements trouvés dans une Brèche calcaire sur la Rivière de Hunter (N. S. Wales). *Bull. Soc. Géol. de France*, 1830, i, p. 144.

— On the Fossil Bones of Wellington Valley, New Holland. *Edinb. N. Phil. Jour.* 1832, xii, pp. 301-308; *Jahrb. für Mineralogie*, 1833, p. 603.

— Observations on a Collection of Fossil Bones, sent to Baron Cuvier from New Holland. *Edinb. N. Phil. Jour.* 1833, xxviii, p. 120, plate 5; *Froriep. Notizen*. 1833, col. 231-233; *Jahrb. für Mineralogie*, 1833, p. 605.

PEPPERCORNE (F. S.) Australian Topography. Historical Sketch of the Progress of Inland Discovery in Australia. *Waugh's Austr. Almanac for the year 1861*, pp. 31-42; *Ibid. 1862*, pp. 29-48; *Ibid. 1863*, pp. 45-51.

— Sketches of Australian Geology. *Ibid. 1864*, pp. 31-50.

PERCY (Dr. J.) The Metallurgical Treatment and Assaying of Gold Ores. *Lecture 5, Lectures on Gold*, 2nd ed. 1853, pp. 121-165.

— Iron in Queensland. *Mining Jour.* 1874, xliv, p. 947.

PÉRON (M. F.) Voyage de Découverte aux Terres Australes. Historique, i, pp. 496 (4to. Paris, 1807) (Geological notes scattered through).

— and Freycinet (L.) Voyage de Découvertes aux Terres Australes, &c. Historique, ii (4to. Paris, 1816).

PÉRON (M. F.) and Freycinet (L.)—An account of Péron's Peninsula in Shark's Bay, W. Australia, &c. *Cheek's Edinb. Jour. Nat. and Geogr. Science*, 1830, ii, p. 249, t. 6.

PETERMANN (A.) On the Interior of Australia. *Brit. Assoc. Report for 1853*, pt. 2, pp. 89-90 (1854).

— Zur Physicalischen Geographie der Australischen Provinz Victoria. *Mittheilungen*, 1855, pp. 345-360.

— Zur Geographie von Australien und Tasmanien. *Ibid.* 1856, pp. 439-443.

— Australien nach dem Stande der geographischen Kenntniss in 1871, nach originalen und. offiziellen quellen Kartographisch. Nebst einem geographisch-statistischen Compendium von C. E. Meinicke. *Geogr. Mittheilungen. Ergänzungsband*, vi, 1869-71, No. 29, pp. 28. 1 Abth.: die nordhälfta Australiens, in 4 Kartenblättern; No. 30. pp. 15. 2 Abth.: die südhälfta Australiens, in 4 Kartenblättern (4to. Gotha, 1871), Maassstab, i, 3,500,000 (scattered Geological Notes on Map, &c.).

PETERSWOLD (W. J.) Report on the South Australian Gold Fields. *Mining Jour.* 1871, xli, p. 322.

PETROLEUM—Correspondence, &c. respecting the existence of Petroleum in New South Wales, pp. 22 (fcap. Sydney, 1867), Map, Sections, &c. (contains a paper by W. Keene, pp. 5-21, with numerous woodcuts).

— see Doyle (P.) ; Keene (W.).

PETROLOGY—see Howitt (A. W.).

PHACOLITE—see Rath (G. vom).

PHILLIPS (J.) Geology of Gold. *Mining Jour.* 1857, xxvii, p. 613.

— Geology of Australasia. *Ibid.* 1855, xxv, p. 274.

— On the Gold Field of Ballarat. *Quart. Jour. Geol. Soc.* 1858, xiv, pp. 538-540 (abstract); *Geologist*, i, p. 164; *Mining Jour.* 1858, xxviii, p. 213.

- PHILLIPS (J.) The Discovery of Gold in New South Wales.
Mining Jour. 1877, xlvii, p. 1132.
- (J. A.) Gold Mining and Assaying : a Scientific Guide for Australian Emigrants, pp. xiv and 159 (8vo. London, 1852) (Gold Fields of Australia, p. 14 ; Government Regulations of Gold Fields, p. 133).
- Gold Mining and the Gold Discoveries made since 1851.
Jour. Soc. Arts, 1862, x, No. 495, pp. 419-429.
- The Mining and Metallurgy of Gold and Silver, pp. xviii and 523 (8vo. London, 1867) (Australia, pp. 101, 128, 165).
- (T. T.) Analyses of Coals. *De la Beche and Playfair's Third Report on Steam Coals*, pp. 47-55 (Coals from South Cape, Mt. Nicholas, Fingal, Jerusalem, Douglas River, and other Coal Fields, Tasmania, pp. 52-53)—see also De la Beche (Sir H.).
- (—) Report on the Nundle and Denison localities, the Upper Peel, and Hunter Rivers, N. S. Wales. *Mines and Min. Statistics N. S. Wales*, for 1875, pp. 49-53.
- PHIPSON (Dr. T. L.) On Native Zinc and Native Tin from Victoria. *Chem. News*, 1862, vi, pp. 47-48.
- On the Composition of a Peculiar Substance, which exudes from a Tertiary Rock in Australia. *Ibid.* 1862, vi, p. 218.
- On the Composition of a Peculiar Substance from the Wallabies Holes, River Murray, South Australia. *Geologist*, 1862, v, p. 141.
- PHYSICAL Geography—see Ansted (Prof. T. D.) ; Burr (T.) ; Earl (G. W.) ; Evans (G. W.) ; Jeffreys (Lieut. C.) ; Kent (J.) ; King (Capt. P. P.) ; Petermann (A.) ; Selwyn (A. R. C.), and Ulrich (G. H. F.) ; Strzelecki (Count).
- PICTET (Prof. F. J.) *Traité de Paléontologie, ou Histoire Naturelle des Animaux Fossiles*, 4 vols. 8vo. (atlas 4to. Paris, 1853-57) (various Genera noticed).

PITTMAN (E. F.) On the Back Creek, or Barrington Gold Field. *Ann. Report, Dept. of Mines, N. S. Wales, for 1877*, pp. 10-11 (1878).

— Notes on the Geology of part of the New England District, N. S. Wales (Appendix D to Geol. Surveyor's Annual Report, 1879). *Ibid.* 1879, pp. 225-227.

— Department of Mines. Geological Map of Hill End and Tambaroora, New South Wales, with two horizontal sections and sheet of letter-press notes. Scale, vertical and horizontal, 20 chains to 1 inch (to accompany *Ibid.* 1879, Sydney, 1880).

PLANTS, Fossil—*see* Brongniart (—) ; Carruthers (W.) ; Clarke (Rev. W. B.) ; Crépin (F.) ; Dawson (Dr. J. W.) ; Ettingshausen (Prof. C. F. von) ; Feistmantel (Dr. O.) ; Lindley (J.), and Hutton (W.) ; McCoy (Prof. F.) ; Milligan (Dr. J.) ; Moore (C.) ; Morris (Prof. J.) ; Müller (Baron F. von) ; Schimper (Prof. W. P.) ; Stoliczka (Dr. F.) ; Zigno (Count A. de).

PLAYFAIR (Dr. L.) On the Chemical Properties of Gold, and on the mode of distinguishing it from other substances resembling it. *Lecture 3, Lectures on Gold*, 2nd ed. 1853, pp. 69-82.

PLEWS (H. T.) On the Coal Field of New South Wales. *N. England Mining Inst. Jour.* 1858, vi, pt. 3, pp. 21-48 (plans and plates).

PLUNKETT (J. A.) On the Gold Fields of the Northern Territory of S. Australia. *Harcus' South Australia, &c.* 1876, pp. 168-174 (8vo. London, 1876).

POLYZOA, Fossil—*see* Busk (Prof. G.) ; Etheridge (R., jun.) ; Stoliczka (Dr. F.) ; Watts (H.) ; Wilson (J. B.) ; Woods (Rev. J. E. T.).

PORT Jackson—Report of the Commission appointed to inquire into the condition of the Harbour of Port Jackson ; together with Minutes of Proceedings, Verbal Evidence, Answers to Queries and Appendix, pp. 105 (fcap. Sydney, 1866) (with Plans, &c.).

— Phillip—*see* Westgarth (W.).

POWELL (G. S. Baden-) *New Homes for the Old Country. A Personal Experience of the Political and Domestic Life, the Industries and the Natural History of Australia and New Zealand*, pp. xx and 512 (8vo. London, 1872) (Division 4, Mineral Wealth, p. 235).

PRINCEP (J.) *Analysis of several Indian, Chinese and New Holland Coals*. *Edinb. N. Phil. Jour.* 1832, xxvii, pp. 347-349.

PROSPECTING Operations—Résumé of Prospecting Parties' Operations. *Couchman's Progress Report*, No. 4, *Geol. Survey, Vict.* 1877, pp. 176, with—

(a) Plan showing area prospected by the Mt. Buller Party. (b) Plan showing area prospected by the Up. Yarra Party. (c) Plan showing area prospected by the Moyston Party. (d) Plan showing area prospected by the Colac Party. (e) Plan showing area prospected by the S. Gippsland Party, No. 1. (f) Plan showing area prospected by the S. Gippsland Party, No. 2. Scale: 8 miles to 1 inch. (g) Plan showing area prospected by the North Gippsland Party, No. 1. (h) Plan showing area prospected by the North Gippsland Party No. 2. Scale: 8 chains to 1 inch.

— Résumé of Prospecting Parties. *Ibid.* No. 5, 1878, pp. 190-215 (with map of Victoria, showing areas prospected. Scale: 35 miles to 1 inch).

— see Krausé (F. M.); Stevens (T.).

PRYOR (J.) *The Tasmanian Tin Fields*. *Mining Jour.* 1879, xlix, p. 167.

PUGH (T. P.) *A Brief Outline of the Geographical Position, Population, Climate, Resources, Capabilities, Form of Government, Land Laws, Trade, Revenue, &c. &c. &c. of the Colony of Queensland*, pp. 88 (8vo. Brisbane, 1861).

PYRITES, Iron—see Latta (J.); Shirers (—).

QUARTZ Calciner—Wilkinson's—see Wilkinson (D.); Selwyn (A. R. C.).

— Crushing Machine—Appleton's—see Selwyn (A. R. C.).

— Grinder and Amalgamator. Illustration of Patent Grinder and Amalgamator, by Denny and Roberts, now at work at the School of Mines, Ballaarat. *Ann. Report School of Mines, Ballaarat*, 1879 (to face p. 27).

QUARTZ Reefs and Veins (Tables of, Strike and Dip of), N. S. Wales—*see* Wood (H.).

— Tailings—*see* Liversidge (Prof. A.).

QUEENSLAND—The Mineral Wealth of Queensland. *Mining Jour.* 1873, xliii, p. 815; *Coll. Guardian*, 1874, xxvii, p. 757.

— Harbours and Rivers—Report from the Select Committee on the Rivers and Harbours of the Colony, together with the Proceedings of the Committee, and Minutes of Evidence, pp. 53 (fcap. Brisbane, 1864).

— Gold Mining in. *Jour. Soc. Arts*, 1881, xxix, No. 1481, p. 452.

— Reports of Geological Survey—*see* Aplin (C. D'O. H.); Daintree (R.); Gregory (A. C.); Jack (R. L.).

— Hand Book for Emigrants to Queensland, Australia, pp. 16 (8vo. n. d.) (Minerals, p. 7).

— Queensland as a Field for Emigration, pp. 68 (8vo. n. d.) (The Gold Fields, p. 33).

RADLEY (W.) A Golden Vision from Australasia. *Mining Jour.* 1859, xxix, p. 371.

RALPH (T. H.) Observations on the Microscopical Characters presented by a mineral (Dysodil) from Tasmania. *Trans. R. Soc. Vict.* 1865, vi, p. 7.

RANKEN (W. H. L.) The Dominion of Australia, an Account of its Foundations, pp. viii and 356 (8vo. London, 1874) (Soils, p. 37; Geological Surveys, Mining, &c. p. 180; Coal Fields of N. S. Wales, Tin, Copper, &c. p. 197).

RATH (M. G. vom) Über den Phakolith vom Richmond, Victoria, Australien. *Monatsberichte K. Akad. Wissensch. Berlin, aus dem Jahre*, 1875, pp. 523-532; *N. Jahrbuch*, 1876, pp. 63-64; *Jour. Chem. Soc.* 1876, i, p. 885.

— Kartensectionen der Geological Survey of Victoria. *Verhandl. Naturhist. Vereines des Preussischen Rheinl. und Westfalens. (Sitzungsberichte)*, 1878, xxxv, p. 4.

- RATH (M. G. vom) Eine topographisch-montanistische Karte des Mount Bischof auf Tasmanien. *Verhandl. Naturhist. Vereines des Preussischen Rheinl. und Westfalens. (Sitzungsberichte)*, 1878, xxxv, p. 7.
- Herrn Ulrich dem Universitäts Museum verehrte Mineralien vor. *Ibid.* 1878, xxxv, p. 8.
- Note sur deux nouveaux phosphates du Guano, Hannayite et Newberryite. *Bull. Soc. Min. de France*, 1880, ii, pp. 79-82.
- RATTRAY (Dr. A.) Notes on the Geology of Cape York Peninsula. *Quart. Jour. Geol. Soc.* 1869, xxv, p. 297.
- Notes on the Physical Geography, Climate, &c. of Somerset, Cape York Peninsula. *Jour. R. Geogr. Soc.* 1868, xxxviii, p. 370; *Proc. R. Geogr. Soc.* 1868, xii, p. 313.
- RAWLINSON (T. E.) Report on the Entrance to the Gippsland Lakes, Victoria. *Trans. R. Soc. Vict.* 1865, vi, pp. 84-90; 92-98.
- On the Probable Erosion of the Mountain Ranges of Gippsland. *Ibid.* 1866, vii, pp. 29-34.
- Notes on the Discovery of some Keys in the Shore formation of Corio Bay, near Geelong. *Ibid.* 1876, xii, pp. 33-43, 5 plates.
- On the Past and Present of the Port of Melbourne, and proposed work for its Improvement. *Ibid.* 1876, xii, pp. 110-122.
- Note on the Coast Line Formation of the Western District and Proofs of the uniform condition of Meteorological Phenomena over long periods of time. *Ibid.* 1878, xiv, pp. 25-34 (plate).
- Subterranean Drainage in the Interior (Australia). *Trans. Phil. Soc. Adelaide*, for 1877-78, pp. 124-126.
- REDWAY (W.) On the Gold-diggings at Creswick Creek and Ballarat. *Quart. Jour. Geol. Soc.* 1858, xiv, p. 540 (abstract); *Geologist*, i, p. 165; *Mining Jour.* 1858, xxviii, p. 213.

REED (C. R.) *The Australian Gold Fields* (8vo. London, 1853).

REEFS, Auriferous Quartz—*see* Bland (R. H.) ; *Clunes* ; Calvert (J.) ; Clarke (Rev. W. B.) ; Couchman (T.) ; Davison (S.) ; Hopkins (E.) ; Ligar (C. W.) ; Murray (R. A. F.) ; Nicholas (W.) ; Rosales (H.) ; Selwyn (A. R. C.) ; Ulrich (G. H. F.).

REID (G. H.) *An Essay on New South Wales, the Mother Colony of the Australians*, pp. 173 (8vo. Sydney, 1876) (Soil, p. 5 ; Mineral Progress and Resources, p. 64).

REPORTS, Annual and Progress (Geological Surveys, &c.)—*see* Aplin (C. D'O. H.) ; Baker (Honbl. E. A.) ; Blandowski (W.) ; Brown (H. Y. L.) ; Charters (W. S. C. M.) ; Clarke (Rev. W. B.) ; Conybere (Rev. W. D.) ; Couchman (T.) ; Daintree (R.) ; Dalton (—) ; Gregory (A. C.) ; Griffin (T. J.) ; Jack (R. L.) ; Krausé (F. M.) ; Lucas (Honbl. J.) ; Murray (R. A. F.) ; Selwyn (A. R. C.) ; Smyth (R. B.) ; Stutchbury (S.) ; Ulrich (G. H. F.) ; Wilkinson (C. S.) ; Woods (Rev. J. E. T.).

— Mining.—Mining Surveyors' Reports furnished by the Mining Surveyors of Victoria to the Board of Science, vol. i, 1859 ; vol. ii, 1860 (8vo. Melbourne).

“RESEARCH”—Auriferous Drifts in Australasia ; or, the Cause and its Continuity of the Great Geological Convulsions, and the Theory of the Origin and Position of Auriferous Drifts, pp. 61 (8vo. Melbourne, 1868).

REYER (E.) Allgemeine Geschichte des Zinnes. *Oesterreichischen Zeits. für Berg und Hüttenwesen*, 1880, xxviii.

— (Dr.) Tin, and its History. *Mining Jour.* 1879, xlix, p. 1299.

RIPPLE Marks—*see* Wintle (S. H.).

ROBERT (E.) Aperçu des Observations Géologiques faites dans le Nord de l'Europe, principalement sur les traces anciennes de la mer, pendant les années 1837-1838. Voyage au Spitzberg. *Bull. Soc. Géol. de France*, 1842, xiii, p. 21 (Remarks on Australian Fauna, p. 25, Note 1).

ROBERTSON (C. G.) On a Locality yielding Upper Silurian Fossils, near Duntroon, N. S. Wales. *Sydney Mag. Science and Art*, 1858, i, p. 135.

ROBINSON (C.) The Progress and Resources of New South Wales, pp. 25 (8vo. Sydney, 1877); pp. 20 (8vo. Sydney, 1878).

ROCKS, Metamorphic—*see* Howitt (A. W.); Woods (Rev. J. E. T.).

— Specimens of—*see* Howitt (A. W.); Ulrich (G. H. F.); Winch (N. J.).

ROSALES (H.) On the Gold Fields of Ballaarat, Eureka, and Creswick Creek, Victoria. *Quart. Jour. Geol. Soc.* 1855, xi, pp. 395-399.

— On the Gold Diggings at Ballaarat. *Ibid.* 1858, xiv, p. 543; *Geologist*, i, p. 166.

— On the Gold Fields of Creswick Creek and Ballaarat, Victoria. *Quart. Jour. Geol. Soc.* 1859, xv, pp. 497-503; *Geologist*, ii, p. 95.

— (“Pick and Pen”) Essay on the Origin and Distribution of Gold in Quartz Veins, and its Association with other Minerals, &c. *The Vict. Government Prize Essays*, pp. 209-239 (8vo. Melbourne, 1861).

— Notes on the Copper Mine at Thomson River, Gippsland. *Couchman’s Progress Report*, No. 6; *Geol. Survey, Vict.* 1880, pp. 60-64 (with plan and longitudinal Section of Walhalla Copper Mine, Thomson River. Scale: 160 ft. to 1 inch).

ROSS (J.) South Australia. Mr. J. Ross’s Explorations, 1874, No. 67, pp. 5 (with plan [? Adelaide], 1874).

ROTHERY (F. J.) On the Fitzroy Iron and Coal Mine, at Mittagong, County of Camden. *Cat. Nat. and Indust. Products, N. S. Wales*, 1854, p. 58 (4to. Sydney, 1854).

Roy (Governor Sir C. A. Fitz-) Copy of a Despatch from, to the Right Hon. Earl Grey, on the expediency of causing a Mineralogical and Geological Survey of New South Wales. *Papers relating to Geol. Surveys*, 2nd ser. 1851, No. 1, pp. 1-2 (fcap. Sydney, 1852)—see Bristow (H. W.) ; Beche (Sir H. T. de la).

RUDDER (W. E.) Geological Sketch of East Kempsey, Macleay River, New South Wales. Scale : 3 miles to 1 inch. *Cat. Nat. Industrial Prods., N. S. Wales*; *Paris Univ. Exhib. of 1867* (8vo. Sydney, 1867).

RUSSELL (H. C.) Climate of New South Wales ; Descriptive, Historical, and Tabular, pp. 65 (8vo. Sydney, 1877).

RUTILE, Anatase, &c.—see Gould (C.).

ST. ARNAUD Gold and Silver Mines, Victoria—see Ulrich (G. H. F.).

SALT-PRODUCING Lakes—see Selwyn (A. R. C.).

SALTER (J. W.) Geological Survey of Canada. Figures and Descriptions of Canadian Organic Remains, Decade I (8vo. Montreal, 1859) (Describes *Receptaculites Australis*, Salter).

— Note on the Fossils from Spitzbergen. *Appendix to J. Lamont's "Seasons with Sea-Horses,"* p. 307 (8vo. London, 1861) (A reference to the occurrence of *Productus semireticulatus* in Australia, p. 312).

SAMPSON (L.) The Wheal Fortune Copper Mine, W. Australia. *Descrip. Cat. Products and Manufactures, W. Australia, Internat. Exhib. 1862*, pp. 13-14—see Exhibitions, International, 1862 (W. Australia).

SAND—Australian Sand. *The N. S. Wales Mag.* 1833, No. 3, pp. 165-170.

— Dunes—see Etheridge (R., jun.) ; Rawlinson (T. E.).

SANDHURST Gold Field—see Murray (R. A. F.).

SANDS, Metalliferous—see Lhotzky (Dr. J.) ; Milligan (Dr. J.) ; Nickels (B.).

SANGER (E. B.)—see Australian Desert.

SAUNDERS (T.) *The Asiatic Mediterranean, and its Australian Port; the Settlement of Port Flinders, and the Province of Albert, in the Gulf of Carpentaria, practically proposed*, pp. 120 (8vo. London, 1853).

SCHIMPER (Prof. W. P.) *Traité de Paléontologie Végétale, ou la Flore du Monde primitif, &c.* 3 vols. 8vo. and 1 vol. plates, imp. 4to. (Paris, 1869-74) (*Genus Glossopteris, &c.* described).

SCHIST, Combustible—*see* Archer (W.); *Tasmanite*, or Australian “White Coal.”

SCHRAUF (A.) *Das Kupfer von Wallaroo. Neues Jahrbuch*, 1872, p. 536.

SCIENCE, Board of, Victoria, 1859-60—*see* Smyth (R. B.).

SCOFFERN (J.) *The Gold Seekers’ Chemical Guide. The Chemistry of Gold; its Natural History, Chemical Properties, Modes of Mining, Washing, and Assaying Gold Ores, and hints for distinguishing them from similar substances found in connection with them*, pp. 125 (8vo. London, n. d.).

SCOTT (A. W.) *Mammalia, Recent and Extinct; an Elementary Treatise for the use of the Public Schools of N. S. Wales; Section B, Primata (Seals, Dugongs, Whales, &c. &c.)*, pp. xii, 141 and vii (8vo. Sydney, 1873).

— (Rev. Archdeacon) *Geological Remarks on the Vicinity of Swan River and Garden Island, on the Coast of West Australia. Proc. Geol. Soc.* 1831, i, No. 21, pp. 320-321.

— (—) *Sur la Géologie de la Nouvelle Galles Méridionale et de Van Diemen. Bull. des Sciences Nat. et de Géologie*, 1826, No. 11, p. 285.

SCOULAR (G.) *On the Origin of Mineral Veins, with special reference to the Barossa District (abstract). Trans. Phil. Soc. Adelaide for 1877-78*, pp. 75-76.

— *The Geology of the Hundred of Munno Para. Pt. i, The newer Tertiary Rocks. Ibid.* 1878-79, pp. 60-70.

SCOULAR (G.) The Geology of the Hundred of Munno Para.

Part ii. The Upland Miocene and Fundamental Rocks, and Economics. *Trans. R. Soc. S. Australia*, 1880, iii, pp. 106-128, pls. 5 and 6.

SECTIONS, Geological—see Etheridge (R., jun.) and Murray (R. A. F.); Brown (H. Y. L.); Murray (R. A. F.); Ulrich (G. H. F.) and Brown (H. Y. L.).

SEEMANN (Dr. B.) Australia and Europe formerly one Continent. *Pop. Sci. Review*, 1866, v, pp. 18-28.

SELHEIM (P. H.) Report on the Edwardstown Gold Field. *The Queenslander*, 1875, n. ser. x, No. 7, p. 24.

SELWYN (A. R. C.) Geological Surveyor's Report on the Geology, &c. of the country between Melbourne and Western Port. Geological Survey of Victoria (fcap. Melbourne, 1854).

— Report on the Geology and Mineralogy of Mount Alexander and the adjacent Country lying between the Rivers Loddon and Campaspe, pp. 3, with map (fcap. Melbourne, 1853); also *Parl. Blue Book*, Dec. 1854, pp. 102-103, with map (fcap. London, 1855).

— Geological Survey of Victoria—Report of Geological Surveyor on the Coal Fields near Cape Patterson, 1853-54. A. No. 39 (fcap. Melbourne, 1854).

— The Geology and Mineralogy of the Mount Alexander District, Victoria. *Quart. Jour. Geol. Soc.* 1854, x, pp. 299-303.

— On Australian Geology. *Edinb. N. Phil. Jour.* 1855, n. ser. i, pp. 171-172 (Extract from a Letter to Prof. A. C. Ramsay, F.R.S., dated May 19th, 1854).

— Report on the Geological Relations of some of the Coal Seams of Van Dieman's Land, their probable extent and relative economic value, No. 9, pp. 13 (fcap. Hobart Town, 1855) (Sections); and *Proc. R. Soc. Tas.* 1855, iii, pt. 1, pp. 116-141 (plates).

SELWYN (A. R. C.) Report of Progress of the Geological Survey of Victoria, from date of commencement (fcap. Melbourne, 1856).

- Report on the Geological Structure of the Colony, the Basin of the Yarra, &c. 1855-1856. Geological Survey of Victoria (fcap. Melbourne, 1856).
- The Geology of the Gold Fields of Victoria. *Quart. Jour. Geol. Soc.* 1858, xiv, pp. 533-538; *Phil. Mag.* 1858, xv, p. 400; *Geologist*, i, p. 163; *Mining Jour.* 1858, xxviii, p. 213.
- Notes on the Geology of South Australia. *Geologist*, 1859, ii, p. 292; *Phil. Mag.* 4th ser. xviii, p. 77.
- Notes on the Geology of Victoria. *Quart. Jour. Geol. Soc.* 1860, xvi, pp. 145-150.
- The Geology of the Colony of Victoria. *Intercolonial Exhib. Essays*, pp. 175-209 (8vo. Melbourne, 1861).
- Geological Notes of a Journey in South Australia, from Cape Jervis to Mount Serle. *Proc. R. Geogr. Soc.* 1861, v, pp. 242-244.
- General Report on the Progress and Requirements of the Geological Survey of Victoria to 31st Dec. 1860, No. 43, pp. 34 (fcap. Melbourne, 1862) (maps, plates, &c.).
- Index Map to the Geological Survey of Victoria, showing the progress up to the 30th June, 1862. Scale: 32 miles to 1 inch (Melbourne, 1862).
- Report on the Examination of Coal Fields and other Districts, Jan. to Dec. 1860, with particulars of Expenditure on Coal Fields. Report 2. *Geological Survey of Victoria, Report for 1861-62*, pp. 9-15, No. 43 (fcap. Melbourne, 1862) (with an Appendix, "List of Minerals known in Victoria," pp. 14-15).

SELWYN (A. R. C.) Mining and Geological Survey of Victoria.

Reports and Papers relative to the Mining and Geological Survey of Victoria, 1863; and Geological Sketch Map to accompany same, No. 36, pp. 46, with appendices (fcap. Melbourne, 1863), contains—

- (a) Index Map to the Geol. Survey of Victoria, showing the Progress up to the 30th April, 1863. Scale: 32 miles to 1 inch. (b) Section of Dr. Hedley's Boring for Coal. Vert. scale: 12 ft. to 1 inch.

see also Aplin (C. D'O. H.) and Ulrich (G. H. F.); Taylor (N.); Braché (J.); Wilkinson (D.).

— Reports relative to the Examination of Coal Fields.

Reports and Papers, Mining and Geol. Survey, Victoria, 1862-63, No. 36, pp. 11-18 (fcap. Melbourne, 1863), comprising—

- (a) Geelong District. (b) Cape Patterson and Western Port. (c) Wannon and Portland Bay Districts.

— Report on the Expenditure of the Vote Division No. 53, Subdivision No. 2. *Item*—Expense of Testing and Reporting on New Inventions and Discoveries relating to Mining, £250. (a) Wilkinson's Process for Calcining Quartz. *Ibid.* No. 36, pp. 19-24, comprising letters from Bland (R. H.); Wilkinson (D.); Thompson (H. A.); Davies (R.).

— Report on the Expenditure of the Vote Division No. 53, Subdivision No. 2. (b) Appleton's Quartz Crushing Machine. *Ibid.* No. 36, p. 25—*see* Appleton (H.).

— Victoria, geologically coloured (in 8 sheets). Scale: 8 miles to an inch (Melbourne, 1863).

— Report of the Director of the Geological Survey of Victoria for the period from June, 1863, to Sept. 1864, with Appendices, No. 44, pp. 28 (fcap. Melbourne, 1865)—*see* Aplin (C. D'O. H.); Wilkinson (C. S.).

— Reports relative to the Geological Survey of Victoria, 1865, No. 14, pp. 27 (fcap. Melbourne, 1866) (with Appendices).

- SELWYN (A. R. C.) Report on Bores, Western Port and Cape Patterson Coal Fields. *Reports relative to the Geol. Survey of Victoria*, 1865, No. 14, Appendix E, pp. 21-22 (fcap. Melbourne, 1866).
- Geological Department, Report of ; on Auriferous Drifts and Quartz Reefs, pp. 2 (fcap. Melbourne, 1866) (with sheet of Horizontal sections, Ballaarat and Moorabool Valleys, and Ballanee Estate).
- Geological Survey of Victoria. Report on Salt-producing Lakes. Report C, No. 2, pp. 4 (fcap. Melbourne, 1866).
- Cape Patterson Coal Fields. Report on Coal Seams, Cape Patterson, with plan and section, pp. 4 (fcap. Melbourne, 1867) accompanied by—
 (a) Plan of Coal Seams at Cape Patterson. Scale: 10 chains to 1 inch.
 (b) Section showing probable course of "Queen" Vein from its Outcrop, &c. Scale: 20 ft. to 1 inch.
- Report on the Economical adaptability of the System of Artesian Wells to Victoria, 1866-67. *Geological Survey of Victoria* (fcap. Melbourne).
- Geological Survey of Victoria. Report of the Director of the Geological Survey of Victoria for the year 1867, pp. 23 (fcap. Melbourne, 1868).
- Coal Fields. Report on Expenditure of the Vote in aid of Search for workable Coal Seams. *Report of the Director, Geol. Survey, Vict.* 1868, No. 15, pp. 12-19 (fcap. Melbourne, 1868).
- The Geological Map of Australia (by R. B. Smyth). *Mining Jour.* 1873, xliii, p. 251.
- and Ulrich (G. H. F.) Notes on the Physical Geography, Geology, and Mineralogy of Victoria. *Intercolonial Exhibition Essays*, 1866, pp. 91 (map, section, &c.) (8vo. Melbourne, 1866).
- with Ulrich (G. H. F.), Aplin (C. D'O. H.), Etheridge (R., jun.), and Taylor (N.) A descriptive Catalogue of the Rock Specimens and Minerals in the National Museum, collected by the Geological Survey of Victoria, &c. pp. 96 (8vo. Melbourne, 1868).

SELWYN (A. R. C.) and Aplin (C. D'O. H.) Geological Survey of Victoria. Quarter Sheet 1, N. W. (North Melbourne). Scale : 2 inches to 1 mile (Melbourne, n. d.).

SHARP (E. A.) Report for 1879 on the Barrington Gold Fields. *Ann. Report, Dept. of Mines, N. S. Wales, for 1879*, pp. 172-183.

SHARPE (—) Report on the Tambaroora and Turon District (Gold Field). *Ibid.* pp. 38-44; *Ibid.* for 1877, pp. 59-69.

SHIRESS (—) On the Decomposition of Pyrites. *Trans. R. Soc. Vict.* 1868, viii, p. 41.

SHOLL (R. J.) Journal of an Expedition from Camden Harbour to the South of the Glenelg River, North-western Australia. *Jour. R. Geogr. Soc.* 1866, xxxvi, p. 203 (Mineral Notes, p. 227).

SIDNEY (S.) The Three Colonies of Australia—New South Wales, Victoria, and South Australia ; their Pastures, Copper Mines, and Gold Fields (8vo. London, 1852) (South Australian Copper Mines, pp. 217, 367, 371. History of Gold Discovery, pp. 379-414) (second edition, London, 1853).

SILLIMAN (B.) Note on *Wollongongite*, a remarkable Hydro-carbon, found in the Wollongong District of the Illawarra Coal Field, New South Wales. *American Jour. Sci.* 1869, 2nd ser. xlviii, p. 85 ; *N. Jahrbuch*, 1870, p. 228.

SILVER—see Dixon (W. A.) ; Moore (T.) ; Ulrich (G. H. F.) ; Young (L.).

SIMPSON (P.) Report on the Raggedy Gully near Percydale, with a Plan of the Locality. *Reports Mining Surv. and Registrars, Vict.* 30th September, 1871, No. 103, p. 31.

SINCLAIR (D. M.) Report on the Talgai and Canal Creek Gold Fields, Queensland, for the year 1867, pp. 1 (fcap. Brisbane, 1868).

- SKEENE (A. J.) Map of the District of Geelong. Scale : 8·25 miles to 1 inch (shows Volcanic Hills).
- and Smyth (R. B.) Report on the Physical Character and Resources of Gippsland, pp. 65 (8vo. Melbourne, 1874); 2nd edit. pp. 67 (8vo. Melbourne, 1875), contains—
 (a) Map of Gippsland. Scale : 16 miles to 1 inch. (b) Sketch of a Geological section from Bairnsdale to Bright. Scales: Hor. $\frac{1}{4}$ inch to 1 mile; Vert. $\frac{1}{4}$ inch to 1000 ft.
- SKEY (W.) Critical Notes upon the alleged nuclear action of Gold upon Gold reduced from solution by Organic Matter. *Chemical News*, 1874, xxx, pp. 162-163.
- On the Formation of Gold Nuggets in Drift. *Ibid.* 1874, xxx, pp. 172-174.
- SIMMONDS (P. L.) The Coal Resources of our Colonies. No. 2, New South Wales and Victoria. *Mining Jour.* 1875, xlv, p. 192.
- SINNET (F.) An Account of the Colony of South Australia, prepared for distribution at the Intercolonial Exhibition, pp. 96 (8vo. London, 1862) (Mines, pp. 57-70).
- SLEE (W. H. J.) Annual Report of the Inspector of Mines for N. S. Wales. *Ann. Report, Dept. of Mines, N. S. Wales, for 1876*, pp. 116-126 (1877) (with plan showing position of Mines at Adelong. Scale : 16 chains to an inch).
- Annual Report of the Inspector of Mines for New South Wales. *Ibid. for 1877*, pp. 155-163 (with Notes on the Cargo, Ironbarks, Stoney Creek, and Muckerawa Gold Fields).
- Annual Report of the Inspector of Mines. *Ibid. for 1878*, pp. 133-136.
- SLUICING and Hydraulic Machinery—see Wright (P.).
- SMALLEY (G. R.) On certain possible Relations between Geological and Astronomical Observations. *Trans. Phil. Soc. N. S. Wales*, 1862-65, p. 338 (1866).
- SMELTING—The Smelting Trade in New South Wales. *Mining Jour.* 1846, xvi, p. 486.
- Smelting in New South Wales. *Ibid.* 1852, xxii, p. 66.
- Works—see Austin (J. B.).

- SMITH (Adam) Notes on the Gold Fields of Ballarat. *Proc. R. Phys. Soc. Edinb.* iii, p. 409.
- (J.) On the Separation of Gold from Mundic Quartz. *Clarke's Southern Gold Fields*, App. F. p. 278 (1860).
- Plan and Sections of the Underground Workings of the Sadowa Gold Mining Co., Talbot. *Reports of the Mining Surveyors and Registrars, Vict.*, No. 74, 1869.
- (Honbl. Prof.) Anniversary Address, delivered to the Royal Society of N. S. Wales, 28 May, 1879. *Jour. R. Soc. N. S. Wales*, 1880, xiii, pp. 1-26 (Contains an Obituary Notice of the Rev. W. B. Clarke, F.R.S., &c.).
- SMYTH (R. B.) On the Comparative Value and Durability of the Building Materials in use in Melbourne. *Trans. Phil. Soc. Vict.* 1855, i, pp. 24-33.
- On the Influence of the Physical Character of a Country on the Climate. *Ibid.* 1855, i, pp. 203-221 (with sections).
- On the Extinct Volcanoes of Victoria. *Quart. Jour. Geol. Soc.* 1858, xiv, pp. 227-235; *Phil. Mag.* 1858, xv, p. 74.
- On a New Mineral from McIvor (Heathcote). *Trans. Phil. Inst. Vict.* 1858, ii, pp. 17-19.
- Victoria, Board of Science, Second Annual Report for 1859-60, No. 48, pp. 40 (fcap. Melbourne, 1860).
- Mining and Statistics of Gold. *Intercolonial Exhib. Essays, Victoria*, pp. 99-130 (8vo. Melbourne, 1861).
- The Prospector's Handbook; a Catalogue of Useful Minerals which may be sought for and found in Victoria, pp. 30 (12mo. Melbourne, 1863).
- On the Unexplored Districts of Victoria. *Trans. R. Soc. Vict.* 1865, vi, p. 62.
- The Mining and Mineral Statistics of Victoria, pp. 42. *Inter-colonial Exhibition Essays, Victoria* (8vo. Melbourne, 1866).
- Catalogue of Minerals, Rocks and Fossils, which have been collected in the Colony by the Mining Department, Melbourne, Victoria, pp. 103 (8vo. Melbourne, 1866).

- SMYTH (R. B.) Victoria, Report on the Present Condition of the Geological Survey of the Colony, No. 11, pp. 8 (fcap. Melbourne, 1870) (with map).
- On the Age of the Auriferous Deposits of Australia. *Geol. Mag.* 1872, ix, p. 335.
- Victorian Exhibition, 1872. International Exhibition, 1873. Mining and Mineral Statistics ; with Notes on the Rock Formations of Victoria : to which is added a Sketch of a New Geological Map of Victoria. *Internat. (Victorian) Exhibition Essays*, 1873, No. 1, pp. 119 (8vo. Melbourne, 1872).
- Victoria, Geological Survey of the Colony. Report of Progress. Presented to both Houses of Parliament by His Excellency's command, No. 7, pp. 54 (with horizontal and vertical sections) (fcap. Melbourne, 1874).
- Geological Survey of Victoria. Report of Progress for the year 1873, No. 1, with Sub-Reports. Report on the Mineral Resources of Ballarat, by Reginald A. F. Murray ; and Reports on the Coal Fields of Loutit Bay, Apollo Bay, and the Wannon, by the Board appointed to Report on the Coal Fields of the Colony, pp. viii and 135, plates, maps, sections (8vo. Melbourne, 1874)—see Murray (R. A. F.) ; Krausé (F. M.) ; Smyth (R. B.) ; Hodgkinson (C.) and Couchman (T.).
- Report on the Coal Field in the Wannon District. *Ibid.* 1874, pp. 119-124 (with Geological Sketch Map of Country in the Counties of Dundas, Borung, and Ripon. Scale : 8 miles to 1 inch).
- Geological Survey of Victoria. Report of Progress for the year 1874, No. 2, with Reports on the Geology, Mineralogy and Physical Structure of various parts of the Colony, pp. vi and 141, with plates, maps and sections (8vo. Melbourne, 1875)—see Howitt (A. W.) ; Murray (R. A. F.) ; Etheridge (R., jun.) ; Taylor (N.) ; Krausé (F. M.) ; Nicholas (W.) ; Ulrich (G. H. F.) ; Newbery (J. C.).

- SMYTH (R. B.) On the Geological Specimens collected on the Expeditions of Mr. J. Forrest across Australia. *Forrest's Explorations in Australia* (8vo. London, 1875) (Appendix pp. 327-28).
- Report on the Geological Specimens collected on the W. Australian Exploring Expedition, commanded by John Forrest, F.R.G.S., 1875. *Journal of Proceedings*, 1875, p. 39—*see* Forrest (J.).
- First Sketch of a Geological Map of Australia. Scale : 1 : 7,000,000, or 110 miles to 1 inch (Melbourne, 1875).
- Victoria. Report of the Chief Inspector of Mines to the Honorable the Minister of Mines, for the years 1874-1875, presented to both Houses of Parliament by His Excellency's command (fcap. Melbourne, 1875-76).
- Geological Survey of Victoria. Report of Progress for the year 1875, No. 3, with Reports on the Geology, Mineralogy, and Physical Structure of various parts of the Colony, pp. viii and 307, maps, plates and sections (8vo. Melbourne, 1876)—*see* Krausé (F. M.) ; Murray (R. A. F.) ; Howitt (A. W.) ; Taylor (N.) ; Cowan (T.) ; Nicholas (W.) ; Newbery (J. C.).
- The Aborigines of Victoria : with Notes relating to the Habits of the Natives of other parts of Australia and Tasmania. Compiled from various sources for the Government of Victoria, 2 vols. (impl. 8vo. Melbourne and London, 1878) (Stone Implements, and Geological Notes, 1, p. 357).
- Report on the Gold Mines of the South-eastern Portion of the Wynaad and the Carcoor Ghát, with Appendices, pp. 99 (fcap. London, 1880) (Australian references scattered through).
- and Couchman (T.) Report on the Coal Field at Apollo Bay. *Smyth's Progress Report*, No. 1, *Geol. Survey Vict.* 1874, pp. 113-117.
- *see* Stoney (Capt. H. B.).

SMYTH (W. W.) On the Dressing, or Mechanical Preparation of Gold Ores. *Lecture 4, Lectures on Gold*, 2nd edition, 1853, pp. 91-120.

— Australia and California. The Diggings and the Mines. *Mining Jour.* 1865, xxxv, p. 576.

— A Rudimentary Treatise on Coal and Coal Mining, 5th edition, pp. xii and 261 (12mo. London, 1880) Coal Fields of Asia and the Southern Hemisphere, p. 98).

SOILS—*see* Farrer (W.) ; Hodgkinson (C.) ; Strzelecki (Count) ; Voelcker (Dr. A.).

SOLLAS (W. J.) On the changes produced in the Siliceous Skeletons of certain Sponges by the Action of Caustic Potash. *Annals Nat. Hist.* 1877, xx, pp. 285-300 (The Genus *Purisiphonia* referred to).

SOMMER (Dr. F. von) Catalogus der Geologische Bestanddeelen van Nieuw-Holland. *Verhandl. Batavia. Genootschap*, 1849, xxii; also as a Pamphlet, pp. 9 (4to. Batavia, 1849).

— A Sketch of the Geological Formation and Physical Structure of Western Australia. *Quart. Jour. Geol. Soc.* 1849, v, pp. 51-53.

SOUNDINGS, Deep Sea—*see* Clarke (Rev. W. B.).

S. AUSTRALIA.—South Australia, its Geology and Mineralogy. *Mining Jour.* 1859, xxix, p. 491 (Abstract of a Report by Mr. Trewartha, on the Mineral Districts of the Colony, North of Adelaide).

— On the Geology of South Australia. *Geologist*, 1862, v, p. 345.

— *see* Burr (T.) ; Capper (H.) ; Dutton (F.) ; Harcus (W.) ; Hargraves (E. H.) ; Menge (J.) ; Sinnet (F.) ; Woods (Rev. J. E. T.).

SOWERBY (G. B.) Descriptions of Palæozoic Shells from Van Dieman's Land. *Darwin's Geological Obs. on Volc. Islands*, 1844, App. pp. 158-160.

SOWERBY (B. G.) An Account of the Fossil Mollusca (Pliocene Series), from New Holland and Van Dieman's Land. *Strzelecki's Phys. Description of N. S. Wales and V. D. Land*, 1845, pp. 296-298, pl. 19.

SPEECHES—Speeches delivered at the Australian Anniversary Dinner in commemoration of the Foundation of the First of the Australian Colonies, held at "The Albion," Aldersgate Street, London, on Tuesday, the 26th of January, 1858, pp. 35 (8vo. London, n.d.) (Speech by Sir R. I. Murchison, on the Existence of Gold in Australia, p. 28).

"SPITFIRE," Government Schooner—Report of the Proceedings of the Queensland Government Schooner "Spitfire," in search of the mouth of the River Burdekin, on the North-eastern Coast of Australia: and of the Exploration of a portion of that Coast, extending from Gloucester Island to Halifax Bay, pp. 42 (8vo. Brisbane, 1860)—*see Dalrymple (G. E.).*

SPONGES, Fossil—*see* Bowerbank (Dr. J. S.) ; Carter (H. J.) ; Sollas (W. J.).

SPORANGIA, in Coal—*see* Dawson (Dr. J. W.) ; Huxley (Prof. T. H.) ; Newton (E. T.).

SPRENT (C. P.) Tasmania. Mr. Sprent's Report on Mount Bischoff and Country round, No. 43 (fcap. Hobart Town, 1876), with Sketch map of the River Pieman and vicinity. Scale: 2 miles to 1 inch.

STAGG (R.) Report on the result of the Assaying of Lead Ore from South Australia. *The S. Austr. Register*, 1842, v, No. 242.

STANLEY (Capt. Owen)—*see* Stokes (Capt. J. Lort).

STATISTICAL Accounts—*see* Wentworth (W. C.).

STATISTICS—*see* Stirling (Sir J.).

— Mineral—*see* Baker (Honbl. E. A.) ; Barat (C.) ; Robinson (C.) ; Russell (H. C.) ; Smyth (R. B.) ; Suttor (Honbl. W. H.) ; Tayler (J.).

STATISTICS, Mining—Summary of Mining Statistics furnished by the Mining Surveyors of Victoria to the Mining Department (8vo. Melbourne, 1862) (One part for each month of the year).

STEPHEN (G. M.) On the Gems and Gold Crystals of the Australian Colonies. *Quart. Jour. Geol. Soc.* 1854, x, pp. 303-308.

— On the Gems of Australia, &c. *Trans. R. Soc. N. S. Wales for year 1872*, pp. 75-82.

— Letter on the Discovery of Gold in New Caledonia, and Tin in New South Wales. *Quart. Jour. Geol. Soc.* 1872, xxviii, p. 42.

STEPHENS (T.) On the Coal Seam at Mangana, Tas. *Papers and Proc. R. Soc. Tas.* 1863 (April), pp. 1-3.

— General Remarks on the Origin of Drift Gold, with special reference to the probability of the Existence of Deep Leads at Fingal. *Ibid.* 1865 (October), pp. 106-108.

— Remarks on the Geological Structure of Part of the North Coast of Tasmania, with special reference to the Tertiary Marine Beds near Table Cape. *Ibid.* 1869 (May), pp. 17-21.

— Notes on the occurrence of Gold at Port Cygnet. *Ibid.* 1869, p. 55.

— Note on a hollow spherical mass of Iron Ore from Hope Island, Port Esperance. *Ibid. for 1873* (March), p. 2 (*foot note*).

— The Mersey Coal Measures, Tasmania. *Ibid. for 1873* (August), pp. 36-38 (1874).

— On Tasmanian Silurian Fossils. *Ibid. for 1874* (July), p. 27.

— On Specimens of the Strata traversed by the Prospecting Shaft at Spring Bay, Tasmania. *Ibid. for 1875* (July), pp. 39-40.

- STEPHENS (T.) On three Specimens from the Prospecting Shaft, Spring Bay. *Papers and Proc. R. Soc. Tas.* for 1875 (September), pp. 83-84.
- On Tasmanian Specimens of Fossil Wood. *Ibid. for 1876* (March), pp. 2-3.
- Remarks on Tasmanite or Dysodil. *Ibid. for 1876* (March), pp. 4-5.
- Notes on the Coal Shaft at Spring Bay, Tas. *Ibid. for 1876*, p. 74 (1877).
- Notes on the Hobart Town Storage Reservoir. *Ibid. for 1877*, pp. 77-80 (1878).
- On a specimen of so-called Devonian "Marble" from Maria Island. *Ibid. for 1878*, p. 6 (1879).
- Notes on a Visit to the "Hot Spring," near Southport, in 1877. *Ibid. for 1878*, pp. 63-64 (1879).
- (W. J.) Presidential Address at the Annual General Meeting, Jan. 1879, Linnean Soc. of New South Wales. *Proc. Linn. Soc. N. S. Wales*, 1879, iii, pt. 4, pp. 414-443.
- (D.) Australian and Tasmanian Tin Ore. *Mining Jour.* 1879, xlix, p. 191.
- STIRLING (P. G.) Australian and Californian Gold Discoveries (8vo. London, 1852).
- (—) The Gold Mines of Australia (8vo. Paris, 1853).
- STOKES (Capt. J. Lort) Discoveries in Australia; with an Account of the Coasts and Rivers Explored and Surveyed during the Voyage of H.M.S. Beagle, in the years 1837-43, by command of the Lords Commissioners of the Admiralty; also a Narrative of Capt. Owen Stanley's Visits to the Islands in the Arafura Sea, 2 vols. (8vo. London, 1846).
- STOLICZKA (Dr. F.) Fossile Bryozoen aus dem Tertiären Gründsandsteine der Orakei Bay bei Aukland. Paläontologie von Neu-Seeland. Novara Expedition, Geologischer Theil, Band i, Ath. 2, pp. 87-158, pls. 17-20 (4to.).

STOLICZKA (Dr. F.) Memoirs of the Geological Survey of India ; Palæontologia Indica ; Cretaceous Pelecypoda of Southern India, vol. iii, pp. xxii and 537, plates 50 (4to. Calcutta, 1871) (Critical Remarks on the Australian Fossil Genera of Pelecypoda).

STONE Implements—*see* Cox (Dr. J. C.) ; Smyth (R. B.).

STONES, Building and Ornamental—*see* Hull (Prof. E.) ; Knight (J. G.) ; Newbery (J. C.) ; Smyth (R. B.) ; Thompson (R.).

STONEY (Capt. H. B.) Victoria: with a Description of its Principal Cities, Melbourne and Geelong, &c. pp. 219 (8vo. London, 1856) (Contains letter by R. B. Smyth on "Rocks from the Maryborough Gold Fields," p. 160).

STIRLING (Sir J.) Statistical Report upon the Colony of Western Australia, drawn up to the end of June, 1837. *Appendix, Report on the Present State and Condition of the Colony of W. Australia*, pp. xii (fcap. Perth, 1838) (Geological Characters, p. ii).

— (P. J.) Californian and Australian Gold. *Gentleman's Mag.* 1853, xxxix, pp. 608-613.

STREETER (E. W.) Precious Stones and Gems, their History and distinguishing Characteristics, pp. ix and 264 (8vo. London, 1877) (Australian Diamonds, p. 75).

STRZELECKI (Count) Notes on an Excursion in North-west Tasmania. *Tas. Jour. Nat. Science*, i, pp. 76-78.

— On certain Varieties of Australian Coal. *Ibid.* i, p. 190.

— Analysis of Soils at Mona Vale, Tasmania. *Ibid.* ii, No. 9, table opp. p. 308.

— Report on the Geographical Mineralogy of New South Wales. *App. C, Sir George Gipps's Despatch*, dated Sydney, 28th Sept. 1840, pp. 11-17 (with Map showing Route from Yass Plains by the Australian Alps and Gippsland to Port Phillip, 1840). .

- STRZELECKI (Count) Physical Description of New South Wales and Van Dieman's Land, accompanied by a Geological Map, Sections, Diagrams, and Figures of the Organic Remains (8vo. London, 1845)—*see Morris (Prof. J.); Lonsdale (W.).*
- Gold and Silver. A Supplement to the Physical Description of New South Wales and Van Dieman's Land (8vo. London, 1856).
- STUART (J. McD.) On an Expedition into the Interior of South Australia. *Proc. R. Geogr. Soc.* 1860, iv, p. 77.
- Journal of his Expedition across the centre of Australia, from Spencer's Gulf on the South to Lat. $18^{\circ} 47'$ on the North. *Ibid.* 1861, v, p. 55; *Petermann's Mittheilung*, 1861, pp. 174-194.
- Journal of Australian Exploration. *Jour. R. Geogr. Soc.* 1861, xxxi, pp. 65-83, 84-100, 100-145.
- Explorations of Central Australia. *Proc. R. Geogr. Soc.* 1862, vi, pp. 8-11.
- Diary of Explorations to the North of the Murchison Range in Lat. 20° S., 1860-61. *Jour. R. Geogr. Soc.* 1862, xxxii, pp. 340-371.
- Exploration from Adelaide across the Continent of Australia. *Proc. R. Geogr. Soc.* 1863, vii, pp. 82-83; *Ibid.* 1863, xxxiii, pp. 276-321.
- Explorations across the Continent of Australia. With Charts, 1861-62, pp. 97 (8vo. Melbourne, 1863).
- STURT (Capt. Charles) Two Expeditions into the Interior of Southern Australia during the years 1828-31, 2 vols. (8vo. London, 1833) (with maps and plates of Fossils, &c.).
- Overland Communication with New South Wales. Official Report of Captain Sturt. *S. Australian Gazette*, Jan. 12th, 1839; *Royal S. Austr. Almanack* for 1839, pp. 48-54.
- Account of the Exploring Expedition from South Australia into the Interior of New Holland. *Tas. Jour. Nat. Science*, iii, No. 3, pp. 182-208.

STURT (Capt. Charles) Narrative of an Expedition into Central Australia, performed under the authority of H.M. Government, during the years 1844-1846; together with a Notice of the Province of South Australia in 1847, 2 vols. (8vo. London, 1849).

— and Others. Communications on an Australian Expedition. *Brit. Assoc. Report for 1854*, pt. 2, p. 125 (1855).

STUTCHBURY (S.) Correspondence relating to the Appointment of, as Geological Surveyor for New South Wales. *Papers relative to Geol. Surveys*, 2nd Dec. 1851, No. 3, pp. 7 and 8 (fcap. Sydney, 1852).

— Correspondence with the Colonial Secretary, with Reference to the Gold Fields. *Ibid.* 2nd Dec. 1851, No. 3, pp. 12-18 (fcap. Sydney, 1852)—see Thomson (E. Deas).

— First Report from the Government Geologist, dated Belabula Rivulet, Carcoar, April 12th, 1851. *Ibid.* 2nd Dec. 1851, No. 21, pp. 19-27 (fcap. Sydney, 1852).

— Geological and Mineralogical Survey of New South Wales. Report, dated Camp, near Currugurac, July 18th, 1851. *Ibid.* 2nd Dec. 1851, No. 22, pp. 28-34 (fcap. Sydney, 1852); *Parl. Blue Book*, June 14th, 1852, p. 1, map and sections (fcap. London, 1852) (This is the Second Report, and bears on Geology of Courajee and Callallia Creeks, &c.).

— Geological and Mineralogical Survey of New South Wales; Report dated Burrondong, Oct. 18th, 1851. *Papers relative to Geol. Surveys*, 2nd Dec. 1851, No. 23, pp. 34-35 (fcap. Sydney, 1852) (Third Report, relating to the Geology of the neighbourhood of Burrondong, with List of Gems, including a Diamond from the Turon River).

— Report on the Geological and Mineralogical Survey of New South Wales. *Parl. Blue Book*, Feb. 3, 1852 (fcap. London, 1852) (Correspondence relative to the discovery of Gold in Australia, p. 49).

- STUTCHBURY (S.) Geological and Mineralogical Survey of N. S. Wales. Report on the Geology of the Neighbourhood of Wellington, and its Caves, dated Wellington, Jan. 26th, 1852. *Papers relative to Geol. Surveys, N. S. Wales*, 1852, No. 9, pp. 27-31 (fcap. Sydney, 1852).
- Geological and Mineralogical Survey of New South Wales. On the Geology of the Neighbourhood of the Bell River, &c., Fifth Report, dated Gobolian, near Wellington, April 12th, 1852. *Ibid.* 1852, No. 12, pp. 33-37 (fcap. Sydney, 1852).
- New South Wales Geological Survey, Seventh Tri-monthly Report of the Geological Surveyor, dated Wialdra Creek, Oct. 1st, 1852, pp. 6 (fcap. Sydney, 1852).
- New South Wales Geological Survey, Tenth Tri-monthly Report of the Geological Surveyor, dated Berrigal, July 1st, 1853, pp. 9 (fcap. Sydney, 1853) (Contains a Geol. Map of Liverpool Plains).
- New South Wales Geological Survey, Eleventh Tri-monthly Report of the Geological Surveyor, dated Emu Creek, Darling Downs, 18th Oct. 1853, pp. 11 (fcap. Sydney, 1853) (with Map of the Horton and Macintyre Rivers, and Ottley's Creek).
- On the Geology of Liverpool Plains, &c. Eleventh Report on the Geological and Mineralogical Survey of New South Wales, dated Berrigal, July 1st, 1853. *Parl. Blue Book*, Dec. 1854, pp. 14-20, map and sections (fcap. London, 1855).
- Report on the Coal Fields at Brisbane, &c. Geological and Mineralogical Survey of New South Wales, dated Emu Creek, Darling Downs, Oct. 1st, 1853. *Ibid.* Dec. 1854, pp. 45-54, map, section, and plates (fcap. London, 1855).
- New South Wales Geological Survey, Twelfth Tri-monthly Report of the Geological Surveyor, dated South Brisbane, 1st January, 1854, pp. 8 (fcap. Sydney, 1854) (Map of the Condamine River District).

- STUTCHBURY (S.) New South Wales Geological Survey, Thirteenth Tri-monthly Report of the Geological Surveyor, dated Pine River, 20th May, 1854, pp. 7 (fcap. Sydney, 1854) (Map of Coal Crops of the River Brisbane and Bremer River, plans and section).
- New South Wales Geological Survey, Fourteenth Tri-monthly Report of the Geological Surveyor, dated Durandin, 1st August, 1854, pp. 6 (fcap. Sydney, 1854).
- On the Coal Fields of Ipswich, Brisbane and Moreton Bay. Geological and Mineralogical Survey of New South Wales. *Parl. Blue Book*, July, 1855, p. 7.
- Report on the Country near the Pine River, d'Aguilar's Range, &c. Geological and Mineralogical Survey of New South Wales. *Ibid.* July, 1855, p. 12.
- New South Wales Geological Survey, Fifteenth Report of the Geological Surveyor, dated Auckland Creek, Port Curtis, January, 1855, pp. 8 (fcap. Sydney, 1855) (Map of Mary River District, sections).
- New South Wales Geological Survey, Sixteenth Report of the Geological Surveyor, dated Sydney, Nov. 20th, 1855, pp. 5 (fcap. Sydney, 1855) (Map of Fitzroy River and Port Curtis Island).
- Report on the Geological and Mineralogical Survey of New South Wales. *Parl. Blue Book*, July 25th, 1856, pp. 6-12 (map and sections).
- SUBTERRANEAN Drainage—*see* Rawlinson (T. E.).
- SURVEYS, Geological—The Geological Survey of Victoria. *Geol. Mag.* 1866, iii, p. 217—*see also* N. S. Wales, Victoria, Queensland, Western Australia, and Tasmania.
- SUTTOR (The Honbl. W. H.)—*see* N. S. Wales, Mines and Mineral Statistics, 1877.
- SWAN River—Notice on the Swan River (W. Australia) and the surrounding country. *Cheek's Edinb. Jour. Nat. and Geogr. Science*, 1830, i, p. 446 (with map).

SYDNEIA—*see* Hatchett (C.).

TAILINGS—The Treatment of Test Samples of Tailings and Pyrites, in quantities up to one ton in weight. *Ann. Report, School of Mines, Ballarat*, 1879, p. 27 (with illustration of Denny and Roberts' Grinder and Amalgamator).

TASMANIA—*see* Calder (J. E.) ; Evans (G. W.) ; Gould (C.) ; Gunn (R. C.) ; Harrison (T.) ; Milligan (Dr. J.) ; Selwyn (A. R. C.) ; Stephens (T.) ; Taylor (N.) ; Whiting (G.) ; Wintle (S. A.).

— Reports of Geological Survey—*see* Gould (C.).

TASMANITE—On the Analysis of a Combustible Mineral from Tasmania. *Sydney Mag. Science and Art*, 1859, ii, pp. 212 and 213.

— (Mersey Yellow Coal)—*see* Church (Prof. A. H.) ; Dawson (Dr. J. W.) ; Gould (C.) ; Johnston (R. M.) ; Lee (Dr. R.) ; Moore (T.) ; Newton (E. T.) ; Penny (Prof. —) ; Archer (—) ; Stephens (T.) ; Herapath (W.).

TATE (Prof. R.) On New Species of *Belemnites* and *Salenia* from the Middle Tertiaries of South Australia. *Quart. Jour. Geol. Soc.* 1877, xxxiii, pp. 256-59.

— Ostracoda and Foraminifera in the Miocene of South Australia. *Geol. Mag.* 1877, Dec. 2, iv, pp. 526-27.

— On Indications of Glacial Action at Hollett's Cove, South Australia. *Trans. Phil. Soc. Adelaide*, for 1877-78, p. 1.

— Anniversary Address to the Philosophical Society of Adelaide, 8th October, 1878. *Ibid. for* 1877-78, pp. 11-47 (Review of South Australian Geology and Palaeontology).

— The Fossil Marginellidæ of Australia. *Ibid. for* 1877-78, pp. 90-98.

— Notes on the Correlation of the Coral-bearing Strata of South Australia, with a list of Fossil Corals occurring in the Colony. *Ibid. for* 1877-78, pp. 120-123.

— Descriptions of three New Species of *Helix*, from South Australia. *Proc. Linn. Soc. N. S. Wales*, 1878, ii, pt. 4, pp. 290-91.

- TATE (Prof. R.) The Anniversary Address of the President, Philosophical Society of Adelaide, "Leading Physical Features of South Australia." *Trans. Phil. Soc. Adelaide*, for 1878-79, pp. xxxix-lxxv.
- The Natural History of the Country around the Head of the Great Australian Bight. *Ibid. for 1878-79*, pp. 94-128.
- Zoologica et Palaeontologica Miscellanea, chiefly relating to South Australia. *Ibid. for 1878-79*, pp. 129-140.
- On a New Species of Belemnite from the Mesozoic Strata of Central Australia. *Trans. R. Soc. S. Australia*, 1880, iii, pp. 104-105, pl. 4.
- On the Australian Tertiary Palliobranchs. *Ibid.* 1880, iii, pp. 140-170, pls. 7-11.
- Report on Rock Formations and Minerals in the vicinity of Peak, Central Australia. *Ibid.* 1880, iii, pp. 179-180.
- TAYLER (J.) Mineral Map and General Statistics of New South Wales. Scale : 50 miles to an inch (Sydney, 1876).
- TAYLOR (A.) On the Recent Progress of Gold Mining in Australia. *Trans. Geol. Soc. Edinb.* 1872, ii, p. 137.
- (N.) Quarter Sheet 3, N. W. (Wallan-Wallan) ; 3, S. W. (Donnybrook). Geological Survey of Victoria, under the Direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, 1862).
- Notes Explanatory of the Geology of the District comprised in Quarter Sheets 5, S. E. and S. W., and 6 N. E. and N. W. *Reports and Papers, Mining and Geol. Survey, Victoria*, 1862-63, No. 36, pp. 6-9 (fcap. Melbourne, 1863).
- Quarter Sheet 3, S. E. (Whittlesea). Geol. Survey of Victoria, under the direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, 1864).
- Quarter Sheet 3, N. E. (Mount Disappointment). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, 1865).

- TAYLOR (N.) Report on the Geology of the Snowy River District, and S. E. boundary line between Victoria and New South Wales. *Reports relative to the Geol. Survey of Victoria*, 1865, No. 14, Appendix D. pp. 14-21 (fcap. Melbourne, 1866) (with Geological Sketch map of Eastern Gippsland).
- Quarter Sheets 13, S. E. (Emberton and Glenhope); and 51, S. W. (Baynton's). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, 1866).
- Quarter Sheet 5, N. W. (Great Dividing Range). Geol. Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, 1867).
- Quarter Sheets 2, S. W. (Broadmeadows); 5, S. E. (Lancefield); 4, S. W. (Kilmore); 5, S. W. (The Jim-Jim). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to a mile (Melbourne, n. d.).
- Report on the Geological Survey of the Stawell (Pleasant Creek) Gold Field. *Smyth's Progress Report*, No. 2, *Geol. Survey, Vict.* 1875, pp. 84-92 (Section of Commercial Street Lead, Stawell. Scale: Hor. 40 chains to 1 inch; Vert. 400 feet to 1 inch).
- Report on the Geological Survey of the Stawell Gold Field, Victoria. *Ibid.* No. 3, 1876, pp. 250-272 (six plans and sections of Mines at Stawell).
- Report on the Geological Survey of Learmonth. *Couchman's Progress Report, for 1876*, No. 4; *Geol. Survey Vict.* 1877, pp. 68-74.
- Supplementary Notes on the Geological Survey of Learmonth. *Ibid. for 1877*, No. 5, 1878, pp. 78-81.
- Report on an Outcrop of Granite, east of Buningong. *Ibid. for 1877*, No. 5, 1878, pp. 82-85.
- Report on the Geological Survey of the Clunes Gold Field. *Ibid. for 1877*, No. 5, 1878, pp. 85-87 (with section of the New Lothair Gold Mining Company's workings. Scale: 80 feet to 1 inch).

- TAYLOR (N.) On the Cudgegong Diamond Field, New South Wales. *Geol. Mag.* 1879, Dec. 2, vol. vi, pp. 399-412, 444-458.
- Notes on the Geology of the West Tamar District, Tasmania. *Trans. R. Soc. Vict.* 1880, xvi, pp. 155-165.
- Geology of N. Queensland—*see* Hann (W.).
- with Etheridge (R., jun.) Quarter Sheet 13, N. E. (Redesdale and Spring Plains). Geol. Survey of Victoria, under the direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, 1868).
- and Thomson (Dr. A. M.) On the occurrence of the Diamond near Mudgee. *The Sydney Morning Herald*, Dec. 29th, 1870; *Trans. R. Soc. N. S. Wales* for 1870, pp. 94-106 (1871); and also as a pamphlet, pp. 12 (8vo. Sydney, 1871).
- (R. C.) Statistics of Coal. The Geographical and Geological Distribution of Fossil Fuel or Mineral Combustibles, &c., pp. cxlviii and 754 (8vo. London and Philadelphia, 1848) (Australian Coal Fields, pp. 673-681).
- TENNANT (Prof. J.) Notes on a Gold Nugget from Australia. *Brit. Assoc. Report* for 1859, pt. 2, p. 85 (1860).
- TEGOBORSKI (L. de) Essai sur les Consequences Eventuelles de la Découverte des Gîtes Aurifères en Californie et en Australie (8vo. 1853).
- TEPPER (O.) Introduction to the Cliffs and Rocks at Ardrossan, Yorke's Peninsula. *Trans. Phil. Soc. Adelaide*, for 1878-79, pp. 71-79.
- On Graphic Granite from Yorke's Peninsula. *Trans. R. Soc. S. Australia*, 1880, iii, p. 180.
- TERTIARY Deposits—*see* Jenkins (H. M.); Johnston (R. M.); Scouler (G.); Stephens (T.); Woods (Rev. J. E. T.).
- THOMAS (J. H.) The Iron-making Resources of New South Wales. *Sydney Mag. Science and Art*, 1858, i, pp. 101-104.

THOMAS (J. H.) Report on the present Condition of the Fitzroy Iron and Coal Mines, Mittagong, County of Camden, New South Wales, pp. 9 (folio, Sydney, 1859).

THOMSON (Dr. A. M.) Notes on the Geology around Goulburn. *Trans. R. Soc. N. S. Wales, for 1869*, pp. 56-72 (1870).

— Notes on the Auriferous Slate and Granite Veins of New South Wales. *Ibid. for 1870*, pp. 88-94 (1871).

— (E. Deas) Instructions to the Government Geologist. Copies of Letters from the Colonial Secretary (E. D. Thomson, Esq.) to the Government Geologist (S. Stutchbury, Esq.). *Papers relative to Geol. Surveys, 2nd Dec. 1851*, pp. 9-12 (fcap. Sydney, 1852).

— Correspondence with the Government Geologist, with reference to the Gold Fields. *Ibid. iii*, pp. 12-18 (fcap. Sydney, 1852)—*see* Stutchbury (S.).

— Instructions to, and Correspondence with, Mr. E. H. Hargraves, "On the Existence of Gold in New South Wales." *Ibid. Nos. 26-50*, pp. 64-79 (fcap. Sydney, 1852)—*see* Hargraves (E. H.).

— Instructions to, and Report from, the Rev. W. B. Clarke, "On the Existence of Gold in New South Wales." *Ibid. Nos. 51-54*, pp. 79-81 (fcap. Sydney, 1852)—*see* Clarke (Rev. W. B.).

— Consolidated and Amended Code of Regulations for the management of the Gold Fields. *Papers relative to the Gold Districts, N. S. Wales*, 1852, pp. 15-17 (fcap. Sydney, 1852).

THOMPSON (H. A.) On the Gold Deposits of Victoria. *Sydney Mag. Science and Art*, 1859, ii, pp. 74-77.

— An Outline of a Plan for the Formation and Working of a Mining Company to open out the Quartz Fields of New South Wales. *Ibid. 1859*, ii, pp. 77-79.

— Description of the Clunes Gold Mine, Victoria, with Maps of the workings, and a drawing of the Quartz Crushing Mill. *Ibid. 1859*, ii, pp. 79-80.

THOMPSON (H. A.) On the Extraction of Gold. *Trans. R. Soc. Vict.* 1868, viii, p. 15.

— On the Formation of Mineral Veins, and the Deposit of Metallic Ores and Minerals in them. *Ibid.* 1868, viii. p. 228.

— Notes on the Secondary Beds of North Australia. *Ibid.* 1869, ix, pp. 117-125.

— On the characteristics of the Clunes Gold Fields. *Trans. Mining Inst. Victoria*, 1869, i, pt. 4, pp. 124-125.

— Tin Mines of Australia. *Mining Jour.* 1874, xliv, p. 861.

— (J.) On the Necessity for a further Exploration of the Interior of the Australian Continent. *Sydney Mag. Science and Art*, 1858, i, pp. 232-234.

— (R.) The Marble and Limestone Quarries of New South Wales. *Ibid.* 1858, i, pp. 93-94.

— (Mr. Surveyor) Note on Coal discovered in Lordley Creek, Queensland. *Coll. Guardian*, 1864, vii, p. 202.

THYLACOLEO carnifex (Owen)—*see* Flower (W. H.); Krefft (G.); Owen (Prof. R.).

TIN—The discovery of Tin in New South Wales. *Mining Jour.* 1872, xlvi, pp. 45, 398—*see also* Bonwick (J.).

— Tin in Tasmania. *Ibid.* 1873, xlvi, p. 1109.

— The Australian Tin Mines by “C. E.” *Ibid.* 1874, xliv, pp. 396, 507, 643, 751, 833, 973, 1057, 1281, and 1394; 1875, xv, pp. 71, 287.

— On Australian Tin. *Iron*, 1875, v, p. 551.

— and Tin Fields—*see* Brown (H. Y. L.); Clarke (Rev. W. B.); Daintree (R.); Eddy (Capt. W.); English (A. G.); Gould (C.); Gower (G. A.); Gregory (F. T.); Hume (W. C.); Hunt (J.); Leibius (Dr. A.); Liversidge (Prof. A.); Meredith (Hon. C.); Pryor (J.); Stephens (T.); Tregay (W.); Ulrich (G. H. F.); Wickham (F. D. J.); Wilkinson (C. S.); Wintle (S. H.); Rath (M. G. vom); Rayer (E.).

TOWSON (J. T.) The Gold Fields of Australia. *Trans. Historical Soc. Lancashire and Cheshire*, 1861, new series, i, p. 17.

TRAQUAIR (Dr. R. H.) On some Fossil Fishes from the neighbourhood of Edinburgh. *Annals Nat. Hist.* 1875, xv, pp. 258-268 (Refers to Genus *Cleithrolepis*).

— The Ganoid Fishes of the British Carboniferous Formations. Part i, *Palæoniscidæ*. *Pal. Soc.* (4to. London, 1877) (Refers to Genera *Myriolepis*, &c.).

TREGAY (W.) Australian and Tasmanian Tin. *Mining Jour.* 1878, xlviii, p. 212.

— The Tin Mines of Tasmania. *Ibid.* p. 1135.

TREMENHEERE (S.) Notice respecting the Lead and Copper Ores of the Glen Osmond Mines, 3 miles from Adelaide, South Australia. *Trans. R. Geol. Soc. Cornwall*, 1846, vi, pp. 348-350.

TURNER (E. W.) Report on the Stockyard Creek Diggings. *Reports, Mining Surveyors and Reg. Vict.* 30th June, 1871, No. 3, pp. 42-44 (fcap. Melbourne, 1871).

— (—) Fossil Bones—see Clarke (Rev. W. B.); Leichhardt (L.).

TYERS (C. J.) Report on an Expedition to ascertain the position of the 141st degree of East Longitude, being the Boundary Line between New South Wales and South Australia, by order of His Excellency Sir George Gipps, Knight, &c. &c. &c., pp. 14 (8vo. Sydney, 1840) (with an Appendix and Map) (Contains Geological Notes).

— Report of an Expedition to ascertain the position of the 141st degree of East Longitude, being the Boundary Line between New South Wales and South Australia, &c. *App. D, Sir George Gipps's Despatch*, dated Sydney, 28th Sept. 1840, pp. 18-23.

TYPKE (P. G. W.) On a new Nickel Mineral from New Caledonia. *Chemical News*, 1876, xxxiv, pp. 193-194.

ULRICH (G. H. F.) Gold and Silver-bearing Reefs of St. Arnaud.
Report on the Gold and Silver-bearing Reefs of St. Arnaud.
by G. H. F. Ulrich. *Geol. Survey, Victoria, Report*, pp.
15 (fcap. Melbourne, 1864).

- Report on the Working Claims of the Freiberg Silver Mining Association at St. Arnaud, and the Glen Dhu Reef, near Landsborough. *Reports relative to the Geol. Survey of Victoria*, 1865, No. 14, pp. 22-26 (fcap. Melbourne, 1866) (with two sketch plans of Reefs. Scale: $\frac{1}{40}$ of an inch per foot).
- Quarter sheets 9, N. W. (Malmsbury and Taradale); and 15, S. E. (Franklinford). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale: 2 inches to 1 mile (Melbourne, 1866).
- Geological Survey of Victoria. Notes and Observations on the Nuggetty Reef, Maldon (Quarter sheet 14, N. W.) pp. 9, plate (8vo. Melbourne, 1868).
- Observations on the Nuggetty Reef, Mount Tarrangower Gold Field, Victoria. *Quart. Jour. Geol. Soc.* 1869, xxv, p. 326.
- Contributions to the Mineralogy of Victoria. *Mineral Statistics of Victoria for the year* 1869. Appendix E, pp. 52-67 (fcap. Melbourne, 1870).
- Report on the Mineral Resources of the country lying within 250 miles north of Port Augusta, South Australia, pp. 23 (fcap. Adelaide, 1872) (map, sections, &c.).
- Contributions to the Mineralogy of Victoria, pp. 32 (8vo. Melbourne); and *Neues Jahrbuch*, 1871, p. 72.
- Observations on some of the Tin discoveries in New England, New South Wales. *Quart. Jour. Geol. Soc.* 1873, xxix, pp. 5-11.

- ULRICH (G. H. F.) A descriptive Catalogue of 577 Specimens of Rocks in the Industrial and Technological Museum, collected from all parts of Victoria, with explanatory notes on their character, mode of occurrence, and Geological relations. *Report of the Trustees of the Pub. Lib. Mus. and Nat. Gallery of Vict.* for year 1873-74, pp. 36-66 (fcap. Melbourne, 1874).
- A Report on the Mount Bischoff Tin Mines, Tasmania, with Topographical Sketch Map, pp. 5 (8vo. Launceston, 1874).
- Geology of Victoria. A descriptive Catalogue of the Specimens in the Industrial and Technological Museum, (Melbourne), illustrating the Rock System of Victoria, pp. 108 (8vo. Melbourne, 1875).
- Observations on the Waratah Bay Limestone, Victoria. *Smyth's Progress Report*, No. 2, *Geol. Survey, Vict.* 1875, pp. 125-126.
- Report of an Inspection of the Bismuth Mine at Mount Ramsay, Tasmania, pp. 14 (8vo. Hobart Town, 1876).
- Maldonit und Herschelit aus Australien. *N. Jahrbuch*, 1875, pp. 287-288; *American Jour.* 1876, xi, p. 235.
- Über die Zinnmine am Mt. Bischoff in Tasmanien. *N. Jahrbuch*, 1877, pp. 494-497.
- Die Zukunft der Goldausbeute in Australien (8vo. Stuttgart, 1879); also *N. Jahrbuch*, 1879, p. 347.
- and Brown (H. Y. L.) Quarter Sheet 14, S. W. (Maldon) with Horizontal Section. Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, 1867).
- and Brown (H. Y. L.) Quarter Sheet 14, N.W. (Mount Tarrangower, and Maldon). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, 1868).
- Quarter Sheet 9, N. E. (Langley). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale : inches to 1 mile (Melbourne, n.d.).

ULRICH (G. H. F.) and Brown (H. Y. L.) Section to accompany Quarter sheet 14, N. W. (Mount Tarrangower and Maldon). Geological Survey of Victoria, under the direction of A. R. C. Selwyn. Scale, Hor. and Vert.: 40 chains to 1 inch (Melbourne, n.d.).

UNGER (Dr. F.) Genera et Species Plantarum Fossilium, 2nd ed. (8vo. 1850) (Genera *Glossopteris*, *Phyllotheca*, &c.).

VERNEUIL (E. de) Coquilles du Calcaire de Montagne de la Nouvelle Hollande, et de la Terre de Van Dieman. *Bull. Soc. Géol. de France*, 1840, xi, p. 177.

— Silurisches und Berg Kalk mit ihren Versteinerungen vom Rhein, von Spitzbergen, Süd Amerika, Van Diemensland, &c. *Jahrb. für Min.* 1840, pp. 97-98.

VICKERY (S. K.) Sections of Mines, Lucky Reef, Alexandria, Victoria. *Reports of the Mining Surveyors and Registrars*, No. 1 (fcap. Melbourne, 1868).

VICTORIA—Colony of; Summary of Mining Statistics, furnished by the Mining Surveyors of Victoria to the Mining Department, January 1862 to January 1864 (large 8vo. Melbourne, 1862-64) (published monthly).

— Mines d'Or de Victoria. *Ann. des Mines*, 1868, xiii, p. 502.

— Geological Survey of Victoria; Report of Progress. *American Jour.* 1876, 3rd ser. xi, pp. 232-233.

— see Carpenter (T.) ; Harrison (T.) ; Hopkins (E.) ; Howitt (A. W.) ; Westgarth (W.).

— Reports of Geological Survey—see Aplin (C. D'O. H.) ; Couchman (T.) ; Etheridge (R., jun.) ; Murray (R. A. F.) ; Taylor (N.) ; Selwyn (A. R. C.) ; Ulrich (G. H. F.) ; Wilkinson (C. S.).

VOELCKER (Dr. A.) Analysis of Queensland Soils, pp. 19 (8vo. London, 1874).

VOLCANIC Rocks—see Harrison (T.) ; Newbery (J. C.) ; Howitt (A. W.).

- VOLCANOES—Volcano in New South Wales. *Cheek's Edinb. Jour. Nat. and Geogr. Science*, 1830, ii, p. 62—*see also* Bonwick (J.) ; Smyth (R. B.) ; Wilton (Rev. C. P. N.).
- WALLACE (A. R.) Lecture on the Comparative Antiquity of Continents, as indicated by the distribution of Living and Extinct Animals. *Proc. R. Geogr. Soc.* 1877, xxi, pp. 505-535 (Australia, &c. p. 528).
- Stanford's Compendium of Geography and Travel based on Hellwald's "Die Erde und ihre Völker," Australasia, &c. pp. xviii and 672, maps (8vo. London, 1879).
- Island Life; or the Phenomena and Causes of Insular Faunas and Floras, &c. (8vo. London, 1880) (Geological Explanation of the difference of the Australian and New Zealand Floras, p. 464, &c.).
- WARBURTON (Col. P. E.) South Australia—Colonel Warburton's Exploration, 1872-3. Diary of Colonel Warburton's Exploring Expedition to Western Australia in 1872-3, No. 28, pp. 23 (fcap. Adelaide, 1875).
- Journey across the Western Interior of Australia; with an Introduction and Additions by C. H. Eden, edited by H. W. Bates, pp. ix and 307, map, &c. (8vo. London, 1875) —*see also Proc. R. Geogr. Soc.* 1875, xix, pp. 41-51.
- WARD (E. W.) Additional particulars respecting the Mining Operations at Clunes, &c. *Sydney Mag. Science and Art*, 1859, ii, p. 80.
- (—) and Anderson (—) Vertical Section of the Band and Albion Consols, No. 4 Shaft, Ballarat; and Diagram showing confluence of Golden Point Lead, with lead from the Westward. *Smyth's Progress Report*, No. 1, 1874, figs. 8 and 15 (opp. p. 76).
- WASH-DIRT—Yield of, in N. S. Wales.—*see* Wood (H.).
- WATERHOUSE (G. R.) A Natural History of the Mammalia, 2 vols. (8vo. London, 1846) (vol. i, Marsupialia).
- WATERS (A. W.) Notes on Fossil Lithothamnia (so-called Nullipores). *Mem. Lit. and Phil. Soc. Manchester*, 1876, v, pp. 244-51 (Nullipores from Murray River Tertiaries, p. 247).

WATER Supply—*see* Clements (W. C.) ; Manning (J.) ; Stephens (T.) ; Wilkinson (C. S.).

WATHEN (G. H.) On the Coal Measures along the Coast between Western Port and Cape Liptrap in the Colony of Port Phillip. *Proc. R. Soc. V. D. Land*, 1851, i, pp. 247-253.

— On the Gold Fields of Victoria, or Port Phillip. *Quart. Jour. Geol. Soc.* 1853, ix, pp. 74-79 ; *Mining Jour.* 1853, xxiii, p. 96.

— The Golden Colony ; or Victoria in 1854. With Remarks on the Geology of the Australian Gold Fields, pp. x and 263 (8vo. London, 1855) (Geology, pp. 219-242; Discovery of Gold in Victoria, pp. 243-250).

WATTS (H.) On Fossil Polyzoa. *Trans. R. Soc. Vict.* 1865, vi, pp. 82-84.

WELLINGTON (W.) Notice of Mount Bischoff, Tasmania. *Trans. R. Geol. Soc. Cornwall*, 1875, ix, pt. 1, pp. 161-162.

WELLS (W.) Remarks on the resemblance of the Country in the Neighbourhood of the Dun Mountain and Wairoa Gorge to the Mining District of Queensland and Auckland. *Trans. N. Zealand Inst.* 1870, iii, p. 287.

— (W. H.) A Geographical Dictionary ; or Gazetteer of the Australian Colonies ; their Physical and Political Geography, together with a brief notice of all the Capitals, Principal Towns, and Villages, also of Mines, Rivers, Bays, Gulfs, Mountains, &c. pp. xv and 438 (8vo. London, 1851).

WENTWORTH (W. C.) A Statistical Account of the British Settlements in Australasia ; including the Colonies of New South Wales and Van Dieman's Land, &c., &c. 3rd edit. 2 vols. (8vo. London, 1824) (Coal Seams, i, p. 75 ; Beds of Oyster Shells, i, p. 76).

WESTERN Australia — Exploration of Western Australia. *Nature*, 1879, xx, p. 582 (Soils, Limestone, &c.) ; *Ibid.* 1880, xxi, p. 165.

- WESTERN Australia—*see* Barrow (J.) ; Brown (H. Y. L.) ; Clarke (Rev. W. B.) ; Forrest (J.) ; Gregory (F. T.) ; Hargraves (E. H.) ; Lefroy (H. M.) ; Milligan (W.) ; Scott (Rev. —) ; Sommer (Dr. F. von).
- Reports of Geological Survey—*see* Brown (H. Y. L.).
- WESTERNPORT Coal Field—Progress Report of the Board ; Westernport Coal Field Commission, No. 96 (cap. Melbourne, 1871).
- Coal Field—*see* Cameron (H. G.) ; Krausé (F. M.) ; Mackenzie (J.) ; Selwyn (A. R. C.) ; Wathen (G. H.).
- WESTGARTH (W.) Australia Felix, or a Historical and Descriptive Account of the Settlement of Port Phillip, New South Wales (8vo. Edinburgh, 1848) (Geological and Palæontological Information, pp. 134-139).
- Observations on the Geology and Physical Aspect of Port Phillip, New South Wales, &c. *Tas. Jour. Nat. Science*, ii, No. 11, pp. 402-409.
- Victoria, late Australia Felix, or Port Phillip District of New South Wales (8vo. Edinburgh, 1853) (The Gold Discoveries, p. 130, et seq.).
- Victoria and the Australian Gold Mines in 1857 ; with Notes on the Overland Route from Australia, via Suez, with Maps, pp. xvi and 466 (8vo. London, 1857).
- The Colony of Victoria, &c. (8vo. London, 1864) (Gold Mining, &c. pp. 301-345).
- WHITE (T. J.) Iron in Queensland. *Mining Jour.* 1874, xliv, p. 947.
- WHITING (G.) The Products and Resources of Tasmania, as illustrated in the International Exhibition of 1862. *Internat. Exhib. Commiss. Report*, pp. 37 (8vo. Hobart Town, 1862) (pp. 9-11, 16-21).
- WICKHAM (F. D.) The Tin Products of Mount Bischoff, Tasmania. *Mining Jour.* 1874, xliv, p. 396.
- The Tin Mines of Tasmania. *Ibid.* 1878, xlviii, p. 483.
- The Tin Mines of Australia. *Ibid.* p. 603.

WILKINS (W.) The Geography of New South Wales ; Physical, Industrial, and Political, pp. 135 (8vo. Sydney, 1863) (Geological Structure, pp. 64-71).

WILKINSON (C. S.) Report on the Geology of the Cape Otway District. *Report of the Director, Geol. Survey Vict.* 1863-64, No. 44, pp. 12-13, 21-28 (fcap. Melbourne, 1865), with—

(a) Sketch Section of Coast from Castle Cove to the mouth of the Parker River. (b) Map of Part of the Counties of Polwarth and Heytesbury, Cape Otway District. Scale : half an inch to one mile.

— On the Theory of the formation of Gold Nuggets. *Trans. R. Soc. Vict.* 1868, viii, p. 11.

— Report on the Tin-bearing Country, New England, New South Wales, pp. 10, plates (fcap. Sydney, 1873); also *Mines and Min. Statistics, N. S. Wales*, 1875, pp. 70-89 (Sections and 5 plates).

— Report on the Tin-bearing Country, District of Inverell, New South Wales (fcap. Sydney, 1873).

— Tin Deposits of New South Wales. *Iron*, 1874, iii, pp. 267, 296, and 325; *Mining Journal*, 1874, xliv, No. 2008 (Feb. 21st), p. 200.

— Notes on the Geological and Mineralogical Collection Exhibited at the Metropolitan Intercolonial Exhibition, 1875. *Mines and Min. Statistics, N. S. Wales*, 1857, pp. 117-148.

— Notes on a Collection of Geological Specimens from the Coasts of New Guinea, Cape York, and neighbouring Islands, collected by William Macleay, Esq. &c. *Proc. Linn. Soc. N. S. Wales*, i, pt. 2, pp. 113-117; *Annals Nat. Hist.* 1876, ser. 4, xviii, p. 190; *Geol. Mag.* 1876, Dec. 2, iii, p. 428; *Canadian Nat.* 1876, n. ser. viii, pp. 156-160; *American Jour. Sc.* 1877, ser. 3, xiii, pp. 157-158.

— Report on the Discovery of Tin and other Metals in the Burra-Burra District, between the Bogan and the Lachlan Rivers. *The Queenslander*, 1876, n. ser. xii, Sept. 23rd.

WILKINSON (C. S.) Report to the Minister of Mines, "On the occurrence of Gold in the Coal Measure Conglomerates of New South Wales." *Sydney Evening News*, 1876, No. 2940; *Sydney Morning Herald*, 1876, Dec. 2nd; *The Queenslander*, 1876, Dec. 16th.

- Report of Progress of the Geological Survey of N. S. Wales during the year 1876. *Ann. Report, Dept. of Mines, N. S. Wales, for 1876*, pp. 147-177 (sections, &c.), 1877.
- Department of Mines, New South Wales, Geological Map of the Districts of Hartley, Bowenfells, Wallerawang, and Rydal. Scale: about 60 chains to 1 inch, with a Horizontal Section. Scale, Hor. and Vert.: 3855 feet to 1 inch. *Ann. Report, Dept. of Mines, N. S. Wales, for 1877*, frontispiece (1878).
- On the Depth at which Coal will be found under Sydney. *Ibid. for 1877*, pp. 22-23 (1878).
- Report of Progress of the Geological Survey of N. S. Wales during the year 1877. *Ibid. for 1877*, pp. 197-208 (1878).
- Geological Sketch Map of the Oberon District. Scale: about 180 chains to 1 inch. *Ibid. for 1877* (to face p. 208).
- Report of the Geological Surveyor in Charge for the Colony of New South Wales for the year 1878. *Ann. Report, Dept. of Mines, N. S. Wales, for 1878*, pp. 149-157 (1879).
- Report on Auriferous and other Specimens from New Guinea. *Ibid. for 1878*, pp. 157-159.
- Report on the Barrington Gold Field. *Ibid. for 1878*, pp. 159-164.
- Notes on the Occurrence of Remarkable Boulders in the Hawkesbury Rocks. *Jour. R. Soc. N. S. Wales, for 1879*, xiii, pp. 105-107.

- WILKINSON (C. S.) On the occurrence of Gold in Serpentine; and on the Geological History of Sydney Harbour. *Jour. R. Soc. N. S. Wales, for 1879*, xiii, p. 133.
- Report of Progress of the Geological Survey during the year 1879. *Ann. Report, Dept. of Mines, N. S. Wales, for 1879*, pp. 213-231; with four plates of fossils and one horizontal section (1880).
- Report on the Road Metal Quarries at Prospect and Pennant Hills (Appendix A to Geol. Surveyor's Annual Report, 1879). *Ibid. for 1879*, p. 218.
- Report on Water Supply to the Elrington Gold Field (Appendix B to Geol. Surveyor's Annual Report, 1879). *Ibid. for 1879*, pp. 219-21.
- Department of Mines, New South Wales. Geological Sketch Map of New South Wales, compiled from the Original Map of the late Rev. W. B. Clarke, M.A., F.R.S., F.G.S., &c. Scale : 32 miles to 1 inch (Sydney, 1880).
- Department of Mines, New South Wales. Geological Sketch Map of New South Wales, compiled from the Original Map of the late Rev. W. B. Clarke, M.A., F.R.S., F.G.S., &c. Scale : 16 miles to the inch.
- Notes on the Abercrombie Caves. *Proc. Linn. Soc. N. S. Wales*, 1880, iv, pt. 4, pp. 460-463.
- On the Formation of the Diamond in the Tertiary Drifts of New South Wales. *Geol. Mag.* 1880, Dec. 2, vii, p. 428.
- On Glacial Boulders in Secondary Deposits, Sydney, New South Wales. *Ibid.* 1881, Dec. 2, viii, p. 287.
- and Murray (R. A. F.) Quarter Sheet 26, S. E. (Coole-barg-hurk). Geol. Survey of Victoria under the direction of A. R. C. Selwyn. Scale : 2 inches to 1 mile (Melbourne, 1867).
- and Young (L.) Dept. of Mines, New South Wales. Geological Map of the Town and Environs of Young. Scale : 24 chains to the inch. *Ann. Report, Dept. of Mines N. S. Wales, for 1878*.
- (D.) Process for Calcining Quartz—*see* Selwyn (A. R. C.), Report on.

- WILKINSON (G. B.) South Australia ; its Advantages and its Resources, &c. pp. 391 (8vo. London, 1848), with Map (Mines and Minerals, p. 253).
- The Working Man's Handbook to South Australia ; with a Map, pp. 110 (12mo. London, 1849) (Minerals, p. 38 ; Gold, pp. 108, 111).
- WILLIAMS (J. V.) Mining in Queensland. *Mining Jour.* 1878, xlviii, p. 100.
- WILSON (C. A.) On *Diprotodon Australis* (Owen). *South Australian Register*, 1864, xxviii, No. 5668 (Adelaide, Dec. 29th).
- (J. B.) Fossil Catenicellæ, from the Miocene Beds at Bird Rock, near Geelong. *Jour. Micro. Soc. Vict.* 1880, i, Nos. 2 and 3, pp. 60-63.
- (J. S.) Notes on the Geology of the Neighbourhood of Sydney, Newcastle, and Brisbane. *Quart. Jour. Geol. Soc.* 1856, xii, pp. 283-288.
- On the Physical Geography of the North-west Coast of Australia. *Proc. R. Geogr. Soc.* 1858, ii, pp. 210-216 ; *Jour. R. Geogr. Soc.* 1858, xxviii, pp. 137-153.
- WILTON (Rev. C. P. N.) An Account of the Burning Mountain in Australasia, called Mount Wingen, near Hunter's River. *Edinb. Jour. Sc.* 1830, ii, pp. 270-273 ; *Jahrb. für Mineralogie*, 1833, p. 582.
- Notice of the Burning Mountain of Australia. *The N. S. Wales Mag.* 1833, i, No. 1, pp. 45-46.
- The Geology of the Goulbourn and the Hunter. *Ibid.* 1833, i, No. 3, pp. 178-180.
- A Sketch of the Geology of six miles of the South-east Line of the Coast of Newcastle in Australia, &c. *Phil. Mag.* 1832, new ser., i, pp. 92-95 ; *Jahrb. für Mineralogie*, 1833, p. 449.
- WILTSHIRE (Rev. T.) The History of Coal, pp. 36 (8vo. London, 1878) (Geological Deposits containing Coals or Lignites, p. 35).

WINCH (N. J.) An Account of some Specimens of Rocks, &c.
from Van Dieman's Land and New South Wales. *Thomson's Annals Phil.* 1823, n. ser., v, pp. 341-342.

WINGEN, Mount; or the Burning Mountain—*see* Henderson (Capt.); Wilton (Rev. C. P. N.).

WINTLE (H. S.) Evidences of the Shell Deposits seen around this city (Hobart Town) not being produced by the Aborigines, and the period of their origin being Post Tertiary. *Papers and Proc. R. Soc. Tas.* 1864 (April), p. 32.

— Notes on the Hobart Town Sandstone. *Ibid.* 1864 (July), p. 61.

— A Sketch of the principal Geological Features of Hobart, Tasmania. *Quart. Jour. Geol. Soc.* 1864, xx, p. 465 (abstract); *Geol. Mag.* 1864, i, p. 87.

— Notes on the Shaft sunk for Coal at the Cascades, Tasmania. *Papers and Proc. R. Soc. Tas.* 1865 (July) pp. 67-68.

— On *Endogenophyllites Wellingtonensis*, McCoy. *Ibid.* (March) 1869, p. 2.

— On Fossil Ripple-marks in the Carboniferous Strata at Southport, Tasmania. *Ibid.* 1870 (May), p. 7.

— On an extensive Landslip at Glenorchy, Tasmania. *Quart. Jour. Geol. Soc.* 1873, xxix, p. 33.

— Memorandum on a Specimen of Argentiferous Galena. *Papers and Proc. R. Soc. Tas. for* 1875 (March), p. 3.

— On Specimens of Bismuth and Copper from Tasmanian Localities. *Ibid. for* 1875 (May), pp. 7-8.

— On the Stanniferous Deposits of Tasmania. *Trans. R. Soc. N. S. Wales*, 1876, ix, pp. 87-95 (with a section).

— On Fossils from the West Bank of the Tamar at Rosvear. *Papers and Proc. R. Soc. Tas. for* 1879 (1880), p. 3.

WOLFF (G.) Das Australische Gold, seine Lagerstätten und seine Associationen. *Zeit. der Deuts. Geol. Gesellschaft*, 1877, xxix, p. 83.

WOLLONGONITE—*see* Coal Measures ; Silliman (B.).

Wood Fossil—*see* Hooker (Dr. J. D.); Milligan (Dr. J.); Nicholson (Dr.) ; Nicoll (W.) ; Stephens (T.).

Wood (H.) Notes on the Ballaarat Gold Field. *Smyth's Gold Fields and Min. Districts, Vict.* 1869, App. pp. 445-510.

— Annual Report of the Under-Secretary for Mines for 1876, addressed to the Honbl. John Lucas, Esq., M.P., Minister for Mines, &c., N. S. Wales. *Ann. Report, Dept. of Mines, N. S. Wales, for 1876*, pp. 1-35 (with Tables showing the number of Miners employed; yield of gold and other minerals; wash-dirt puddled, &c.; quartz crushed; strike of quartz reefs; and machinery employed for the year 1876, pp. 22-35).

— Coal and Slate. Table compiled from Return furnished by the owners of Collieries, showing the quantity and value of Coal and Shale won during the year 1876, and the number of Miners employed in the Collieries. *Ibid. for 1876*, pp. 127-128; *Ibid. for 1877*, pp. 164-165.

— Annual Report of the Under-Secretary for Mines for 1877, addressed to the Honbl. W. H. Suttor, M.P., Minister for Mines, &c. N. S. Wales. *Ibid. for 1877*, pp. 1-57 (with Tables showing the number of Miners employed, yield of gold, &c. &c. pp. 43-57).

— Annual Report of the Under-Secretary for Mines for 1878, addressed to the Honbl. E. A. Baker, M.P., Minister for Mines, &c. N. S. Wales. *Ibid. for 1878*, p. 1-35 (with Tables showing the number of Miners employed, yield of gold, &c. &c. pp. 40-60).

— Annual Report of the Under-Secretary for Mines for 1879, addressed to the Honbl. E. A. Baker, M.P., Minister for Mines, &c. N. S. Wales. *Ibid. for 1879*, pp. 1-68 (with Tables showing the number of Miners employed, yield of gold, &c. &c. pp. 52-68).

- WOOD (H.) Annual Report of the Inspector of Mines, N. S. Wales, for 1879. *Ibid. for* 1879, pp. 190-193 (with Table showing the quantity and value of Coal and Shale won during the year 1879, and the number of Miners employed in the Collieries).
- Woods (Rev. J. E. T.) Observations on Metamorphic Rocks in South Australia. *Trans. Phil. Inst. Vict.* 1858, ii, pp. 168-176.
- Remarks on a Tertiary Deposit in South Australia. *Ibid.* 1859, iii, pp. 84-94.
- On some Tertiary Deposits at Portland Bay (Victoria). *Ibid.* iv, pp. 169-172.
- On some Tertiary Deposits in South Australia. *Quart. Jour. Geol. Soc.* 1860, xvi, pp. 253-260; *Phil. Mag.* 4th ser. xix, p. 77; *Geologist*, iii, p. 31.
- Geological Observations in South Australia: principally in the district South-east of Adelaide, pp. xv and 404 (8vo. London, 1862) (plate).
- North Australia; its Physical Geography and Natural History, pp. 46 (8vo. Adelaide, 1864).
- On some Tertiary Fossils in South Australia. *Trans. R. Soc. Vict.* 1865, vi, pp. 3-6 (with plate).
- On some Tertiary Deposits in the Colony of Victoria. *Quart. Jour. Geol. Soc.* xxi, p. 387; *Geol. Mag.* 1865, ii, p. 237; *Phil. Mag.* 4th ser. xxix, p. 404.
- A History of the Discovery and Exploration of Australia; or an Account of the Progress of Geographical Discovery in that Continent from the earliest period to the present day, 2 vols. (8vo. London, 1865).
- Report on the Geology and Mineralogy of the South-east District of the Colony of South Australia, or that country lying between the River Murray, the 141st meridian of Longitude, and the Sea, pp. 33 (8vo. Adelaide, 1866 (map and sections).
- The Tertiary Rocks of South Australia, pt. i, Introduction. *Trans. Phil. Soc. Adelaide* for 1865.

- Woods (Rev. J. E. T.) On the Tertiary Rocks of South Australia. Pt. 2. The Mount Gambier Fossils. *Ibid.*
- The Tertiary Rocks of South Australia. Pt. 3. Brachio-poda. *Trans. Phil. Soc. Adelaide*, for 1865.
- The Tertiary Rocks of South Australia. Pt. 4. Fossil Echinidæ. *Ibid.* for 1866 (plate) (1867).
- The Geology of the South-east (of S. Australia). *Ibid.* for 1866 (1867).
- On the Glacial Period in Australia. *Trans. R. Soc. Vict.* 1868, viii, p. 43.
- Notes on the Physical and Zoological Relations between Australia and Tasmania. *Papers and Proc. R. Soc. Tas.* for 1874 (August), pp. 42-52.
- On some Tertiary Fossils from Table Cape, Tasmania. *Ibid.* for 1875 (March), p. 4; *Ibid.* (May), pp. 13-26 (3 plates).
- On the Genus *Fenestella*. *Ibid.* for 1875 (August), pp. 46-50.
- On some Tertiary Australian Polyzoa. *Jour. R. Soc. N. S. Wales*, 1876, x, pp. 147-150 (2 pls.); *N. Jahrbuch*, 1879, p. 742.
- On the Absence of the Gault Formation in Australia. *Papers and Proc. R. Soc. Tas.* for 1876, p. 66 (1877).
- On the History of Australian Tertiary Geology. *Ibid.* for 1876, pp. 76-78 (1877); *Geol. Mag.* 1877, Dec. 2, iv, p. 416.
- Notes on the Fossils from the Tertiary Marine Beds of Table Cape, Tas., collected by Mr. R. M. Johnston. *Papers and Proc. R. Soc. Tas.* for 1876, pp. 91-115.
- Census ; with Brief Descriptions of the Marine Shells of Tasmania and the adjacent Islands. *Ibid.* for 1877, pp. 26-57 (1878).
- On the Tertiary Deposits of Australia. *Jour. R. Soc. N. S. Wales* for 1877, xi, pp. 65-82 (1878).
- Palæontological Evidence of Australian Tertiary Formations. *Ibid.* for 1877, xi, pp. 113-128 (1878).

- WOODS (Rev. J. E. T.) On some Australian Tertiary Corals.
Jour. R. Soc. N. S. Wales, for 1877, xi, pp. 183-195, pls. 1 and 2 (1878).
- On a Variety of *Trigonia Lamarckii*. *Proc. Linn. Soc. N. S. Wales*, 1877, ii, pt. 2, p. 125.
- On a Tertiary Formation at New Guinea. *Ibid.* 1877, ii, pt. 2, pp. 125-128.
- On the Echini of Australia (including those of the "Chevert Expedition"). *Ibid.* 1877, ii, pt. 2, pp. 145-176; 1878, ii, pt. 4, pp. 342-344.
- On some Tertiary Fossils from New Guinea. *Ibid.* 1878, ii, pt. 3, pp. 267-268.
- On the Extra-Tropical Corals of Australia. *Ibid.* 1878, ii, pt. 4, pp. 292-341 (plates).
- On three new Genera and one new Species of Madreporaria Corals. *Ibid.* 1878, iii, pt. 2, pp. 92-99.
- On some new Extra-Tropical Corals. *Ibid.* 1878, iii, pt. 2, pp. 131-135 (Fossil *Placotrochi*, p. 134).
- On some Tertiary Fossils from Muddy Creek, Western Victoria. *Ibid.* 1879, iii, pt. 3, pp. 222-240, t. 20 and 21.
- On some Fossil Corals from Aldinga. *Trans. Phil. Soc. Adelaide*, for 1877-78, pp. 104-119, pls. 1 and 2.
- The Molluscan Fauna of Tasmania. *Jour. R. Soc. N. S. Wales*, 1879, xii, pp. 29-56.
- On some Australian Tertiary Fossil Corals and Polyzoa. *Ibid.* 1879, xii, pp. 57-61 (pl.).
- On some Tertiary Fossils. *Proc. Linn. Soc. N. S. Wales*, 1879, iv, pt. 1, pp. 1-24, pls. 4.
- On some Post Tertiary Fossils from New Caledonia. *Ibid.* 1879, iv, pt. 3, pp. 360-363.
- On a Fossiliferous Bed at the Mouth of the Endeavour River. *Ibid.* 1880, v, pt. 2, pp. 187-189.
- On some Recent and Fossil Species of Australian Selenariadæ (Polyzoa). *Trans. R. Soc. S. Australia*, 1880, iii, pp. 1-12, 2 pls.

- WOODS (Rev. J. E. T.) On some new Corals from the Australian Tertiaries. *Trans. R. Soc. S. Australia*, 1880, iii, pp. 99-101.
- (T.) Tin in Australia. *Mining Jour.* 1879, xlix, p. 225.
- WOODWARD (H.) A Catalogue of British Fossil Crustacea, &c. pp. xii and 115 (8vo. London, 1877) (*Entomis tuberosa*, Jones, p. 120).
- Description of a new Genus of Trilobites, *Onycopyge Liversidgei*, from the Silurian of New South Wales. *Geol. Mag.* 1880, Dec. 2, vii, pp. 97-99; *N. Jahrbuch*, 1880, ii, p. 232.
- WRIGHT (P.) On Sluicing and Hydraulic Mining in Victoria. *Smyth's Gold Fields and Min. Districts, Vict.* 1869, pp. 126-135.
- WYLD (J.) Notes on the Distribution of Gold throughout the World, including Australia, California, and Russia, with four maps, &c. pp. 44 (8vo. London, 1852).
- YORK, Cape—see Jardine (J.); Rattray (Dr. A.); Wilkinson (C. S.); Daintree (R.); Jack (R. L.).
- YOUNG (L.) Report on the Boorook Silver Mines. *Annual Report, Dept. of Mines, N. S. Wales*, for 1878, pp. 35-41.
- Report on Gold Fields, County of Harden. *Ibid.* pp. 175-177.
- Report on Bingera Gold Field. *Ibid.* pp. 178-179.
- (L. H. G.) Geological Reports on (1) Part of the County of Clarendon; (2) New Rush at Cootamundra; (3) The Moruya Silver Mine (Appendix C, to Geol. Surveyor's Annual Report, 1879). *Ibid. for 1879*, pp. 221-225.
- Report on the Wambian Caves (Appendix E, to Geol. Surveyor's Annual Report, 1879). *Ibid. for 1879*, pp. 227-229.
- ZEPHAROVICH (V. von) Die Atakamit-Krystalle aus Süd-Australien. *Sitz. der K. Acad. Wissensch. Wien*, 1871, lxiii, pp. 6-12; *N. Jahrbuch*, 1871, p. 514; *Sitz. der K. Acad. Wissensch. Wien*, 1874, lxviii, pp. 120-131; *N. Jahrbuch*, 1874, p. 83; *Jour. Chem. Soc.* 1874, xii, p. 555.

ZIGNO (Baron A. de) Sulla Flora Fossile dell' Oolite. *Mem. dell' I. R. Istituto Veneto di Scienzi, Lettere, ed Arti*, 1856, vi, pp. 325-339 (Australian Flora, p. 333).

— Some Observations on the Flora of the Oolite. *Quart. Jour. Geol. Soc.* 1860, xvi, pp. 110-115.

— Sopra di Deposita di Pianti Fossili dell' America Settentrionale, delle Indiè, e dell' Australia, che alcuni Autori Riferiscono all' Epoca Oolitica. *Revista Periodica della I. R. Acad. di Padova*, 1863, xii, p. 148.

ZINC, Native, &c.—*see* Becker (L.) ; Moore (T.) ; Phipson (Dr. T. L.).

ZUCHOLD (E. A.) Dr. Ludwig Leichhardt. Eine biographische Skizze. Nebst einem Berichte über dessen zweite Reise im Innern des Austral.-Continents nach dem Tagebuche seines Begleiters, des Botanikers Daniel Bunce, pp. 118 (8vo. Leipzig, 1856).

ZYGMATURUS (Macleay)—*see* Foëtterle (F.) ; Owen (Prof. R.); Macdonald (Dr. J. D.).

ADDENDA.

BALLANTYNE (Rev. J.) *Homes and Homesteads in the Land of Plenty. A Handbook for Victoria, &c.* 2nd ed. (8vo. Melbourne, 1871) (Contains a chapter on Gold Mining).

BALLAARAT—The School of Mines, Ballaarat. Annual Report together with Statement of Receipts and Expenditure for 1876, General Balance Sheet, and List of Subscribers, Donations, &c. 1875 and 1876, presented at the Meeting of Governors, held 31st January, 1877, pp. 39 (8vo. Ballaarat, 1877).

— The School of Mines, Ballaarat. Annual Report presented at the Meeting of Governors, held February 9th, 1881, together with Statement of Receipts and Expenditure, General Balance Sheet, and List of Subscriptions, Donations, &c. &c. 1880, pp. 70, plans, sections (8vo. Ballaarat, 1881)—*see Krausé* (F. M.).

BLANDOWSKI (W. von) *Personal Observations in Victoria*, pp. 34, pls. 3 (8vo. Melbourne, 1855).

BROWN (H. Y. L.) Report (extracts from) on the Albert Gold Field District. *The Sydney Morning Herald*, August 8th, 1881 (Supplemented with Comments on the Report, by C. S. Wilkinson).

DRIFTS, Auriferous—*see "Research."*

EDMUNDS (R. H.)—*see McKinlay* (J.).

ELDER (Honble. T.) Exploration—*see Giles* (E.).

EXHIBITIONS, International—International Exhibition of Vienna, 1873. Catalogue of the Natural and Industrial Products of Queensland, pp. 63 (8vo. Brisbane, 1873) (Metals and Minerals, p. 3; Exhibits of ditto, pp. 55-60).

HART (G. W.)—*see* Macartney (J. N.).

LINDSAY (Dr. W. L.) The Gold and Gold Fields of Scotland.
Trans. Geol. Soc. Edinb. 1868, i, pt. 2, pp. 105-115 (Contains Australian references).

LISSIGNOL (E.)—*see* McCoy (Prof. F.).

MAERTIN (K.) and Wichmann (A.) Beiträge zur Géologie Öst-Asiens und Australiens. Mit Unterstützung des Niederländischen Ministeriums der Colonien. 1tes. Heft: MARTIN, Sedimente Timors. *Sammlungen des Geologischen Reichsmuseums in Leiden*, No. 1, pp. 64, pl. 3 (8vo. Leiden, 1881).

MENGE (J.) South Australian Minerals—*see* Geology, S. Australia.

MURCHISON (Sir R. I.)—*see* “Speeches.”

NATHORST (A. G.) Berättelse, afgiven till Kongl. Vetenskaps-Akademien, om en med understöd af allmänna medel utförd vetenskaplig resa till England. *Öfversigt K. Vet.-Akad. Forhandl. Stockholm*, 1880, No. 5, pp. 33-84 (*Tæniopteris*, and other fossil plants of Australia, pp. 47-48).

NICHOLSON (Sir C.) The Australian Colonies; their Condition, Resources, and Prospects, pp. 12 (8vo. London, n. d.; privately reprinted from the *Jour. Soc. Arts*, Nov. 27th, 1863, by Prof. J. Tennant) (Contains a list of Minerals found in Victoria, by A. R. C. Selwyn).

OWEN (Prof. R.) Description of some Remains of the Gigantic Land-Lizard (*Megalania prisca*, Owen), from Australia. Part 3. *Phil. Trans.* 1881, clxxii, pt. 2, pp. 547-56, pls. 64-66.

PRIME (F. Jun.) Ore Deposits—*see* Cotta (B. von).

PYRITES—*see* Quartz Grinder and Amalgamator; Quartz Tailings; &c.

QUARTZ Reefs and Veins—*see* Rosales (H.).

QUARTZ Tailings—The Treatment of Test Samples of Tailings and Pyrites in quantities up to one ton in weight. *Ann. Report, School of Mines, Ballarat*, 1879, p. 27—see also Quartz Grinder and Amalgamator.

REYER (E.) Zinn, eine geologisch-montanistisch-historische Monografie, pp. 248 (8vo. Berlin, 1881) (Australia and Tasmania, pp. 181-196).

SELWYN (A. R. C.) List of Minerals found in Victoria—see Nicholson (Sir C.).

SOWERBY (J.) The Mineral Conchology of Great Britain, &c. 7 vols. (8vo. London, 1812-1846) (Silicified Spiral Appendages of *Spirifer* from New Holland, iii, 1820, p. 118).

TATE (Prof. R.) Fossil Mollusca—see Woodward (Dr. S. P.).

TREWARTHA (—)—see S. Australia.

ULRICH (G. H. F.) Geology of N. S. Wales and Queensland—see Leichhardt (L.).

UNGER (Dr. F.) Neu-Holland in Europa. Ein Vortrag gehalten im Ständehause im Winter des Jahres, 1861, pp. 72 (8vo. Wien, 1861).

WATERS (A. W.) On Fossil Chilostomatous Bryozoa from South-west Victoria, Australia. *Quart. Jour. Geol. Soc.* 1881, xxxvii, pp. 309-347, pls. 14-18.

WOODS (Rev. J. E. T.) Palaeontology of New Zealand. Part IV. Corals and Bryozoa of the Neozoic Period in New Zealand, pp. 34, pls. 3, and frontispiece (8vo. Wellington, 1880) (Contains references to Australian Species and Geology).

— The Carboniferous Rocks of the Lower Burnett. *The Bundaberg and Mt. Perry Mail*, No. 477, May 27th, 1881.

— The Geology of Northern Queensland. *The Queenslander*, 1881, xx, No. 307, July 2nd, p. 13 (A Paper read before the Queensland Philosophical Society, 20th December, 1880).

ADDENDA.

WOODS (Rev. J. E. T.) Lecture on the Burrum Coal Field, Queensland, with Map illustrative of the Coal Field, pp. 12 (8vo. Maryborough, 1881), contains—

- (a) Analysis of Newcastle and Burrum Coals, by Dr. D. March ;
- (b) Sketch Map showing Burrum Coal Mines ; (c) Plan of Selections on Burrum River. Scale : 40 chains to 1 inch.

WOODWARD (Dr. S. P.) A Manual of the Mollusca, or Rudimentary Treatise on Recent and Fossil Shells, pp. xvi and 486, pls. 26, 1851-56 ; 3rd ed. pp. xiv and 520, pls. 23, 1875, with an Appendix by Ralph Tate, pp. 86 (8vo. London).

CORRIGENDA.

Page 10, Line 2, *for* Beche (Sir H. de la) *read* (Sir H. T. de la).

- „ 14, „ 25, *after* — *omit* (Rev. J. J.).
- „ 41, „ 3, *for* Rath (— von), *read* (M. G. vom).
- „ 48, „ 26, *for* discovering, *read* discovery.
- „ 48, „ 29, *for* receuillies, *read* recueillies.
- „ 61, „ 9, *for* Archepel, *read*, Archipel.
- „ 70, „ 30, *for* Scoffern (I.), *read* Scoffern (J.).
- „ 105, „ 12, *for* Cudgygong, *read* Cudgegong.
- „ 127, „ 17, *for* Ibid, *read* Trans. R. Soc. Vict.
- „ 130, „ 30, *for* Pitman, *read* Pittman.
- „ 139, „ 19, *for* Roy (Sir —), *read* Roy (Sir C. A. Fitz—).
- „ 163, „ 32, *for* Ankuand, *read* Auckland.

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